Appendix A

RILADDRESS Parameter Constants

Values

RIL_PARAM_A_TYPE

RIL_PARAM_A_NUMPLAN

RIL_PARAM_A_ADDRESS

RIL_PARAM_A_ALL

Comments None

RILAUDIODEVICEINFO Parameter Constants

Values

RIL_PARAM_ADI_TXDEVICE

RIL_PARAM_ADI_RXDEVICE

RIL_PARAM_ADI_ALL

Comments None

RILBEARERSVCINFO Parameter Constants

Values

RIL_PARAM_BSI_SPEED

RIL_PARAM_BSI_SERVICENAME

RIL_PARAM_BSI_CONNECTIONELEMENT

RIL_PARAM_BSI_ALL

Comments None

RILCALLERIDSETTINGS Parameter Constants

Values

RIL_PARAM_CIDS_PROVISIONING

RIL_PARAM_CIDS_STATUS

RIL_PARAM_CIDS_ALL

Comments None

RILCALLFORWARDINGSETTINGS Parameter Constants

Values

RIL_PARAM_CFS_STATUS

RIL_PARAM_CFS_INFOCLASSES

RIL_PARAM_CFS_ADDRESS

RIL_PARAM_CFS_SUBADDRESS

RIL_PARAM_CFS_DELAYTIME

RIL_PARAM_CFS_ALL

Comments None

RILCALLHSCSDINFO Parameter Constants

Values

RIL_PARAM_CHSCSDI_RXTIMESLOTS

RIL_PARAM_CHSCSDI_TXTIMESLOTS

RIL_PARAM_CHSCSDI_AIRINTERFACEUSERRATE

RIL_PARAM_CHSCSDI_CHANNELCODING

RIL_PARAM_CHSCSDI_ALL

Comments None

RILCALLINFO Parameter Constants

Values

RIL_PARAM_CI_ID

RIL_PARAM_CI_DIRECTION

RIL_PARAM_CI_STATUS

RIL_PARAM_CI_TYPE

RIL_PARAM_CI_MULTIPARTY

RIL_PARAM_CI_ADDRESS

RIL_PARAM_CI_DESCRIPTION

RIL_PARAM_CI_ALL

Comments None

RILCALLWAITINGINFO Parameter Constants

Values

RIL_PARAM_CWI_CALLTYPE

RIL_PARAM_CWI_CALLERINFO

RIL_PARAM_CWI_ADDRESSID

RIL_PARAM_CWI_ALL

Comments None

RILCAPSBARRINGPWDLENGTH Parameter Constants

Values

RIL_PARAM_CBPL_TYPE

RIL_PARAM_CBPL_PASSWORDLENGTH

RIL_PARAM_CBPL_ALL

Comments None

RILCAPSBEARERSVC Parameter Constants

Values

RIL_PARAM_CBS_SPEEDS1

RIL_PARAM_CBS_SPEEDS2

RIL_PARAM_CBS_SERVICENAMES

RIL_PARAM_CBS_CONNECTIONELEMENTS

RIL_PARAM_CBS_ALL

Comments None

RILCAPSDIAL Parameter Constants

Values

RIL_PARAM_CD_CALLTYPES

RIL_PARAM_CD_OPTIONS

RIL_PARAM_CD_ALL

Comments None

RILCAPSGPRS Parameter Constants

Values

RIL_PARAM_CGPRS_CLASS

RIL_PARAM_CGPRS_MOSMSSERVICES

RIL_PARAM_CGPRS_NUMGPRSPROTOCOLCAPS

RIL_PARAM_CGPRS_GPRSPROTOCOLCAPS

RIL_PARAM_CGPRS_ALL

Comments None

RILCAPSHSCSD Parameter Constants

Values

RIL_PARAM_CHSCSD_MULTISLOTCLASS

RIL_PARAM_CHSCSD_MAXRXTIMESLOTS

RIL_PARAM_CHSCSD_MAXTXTIMESLOTS

RIL_PARAM_CHSCSD_MAXTOTALTIMESLOTS

RIL_PARAM_CHSCSD_CHANNELCODINGS

RIL_PARAM_CHSCSD_AIRINTERFACEUSERRATES

RIL_PARAM_CHSCSD_TOPRXTIMESLOTRANGE

RIL_PARAM_CHSCSD_ALL

Comments None

RILCAPSLOCKINGPWDLENGTH Parameter Constants

Values

RIL_PARAM_CLPL_FACILITY

RIL_PARAM_CLPL_PASSWORDLENGTH

RIL_PARAM_CLPL_ALL

Comments None

RILCAPSMSGMEMORYLOCATIONS Parameter Constants

Values

RIL_PARAM_CMML_READLOCATIONS

RIL_PARAM_CMML_WRITELOCATIONS

RIL_PARAM_CMML_STORELOCATIONS

RIL_PARAM_CMML_ALL

Comments None

RILCAPSRLP Parameter Constants

Values

RIL_PARAM_CRLP_VERSION

RIL_PARAM_CRLP_IWSRANGE

RIL_PARAM_CRLP_MWSRANGE

RIL_PARAM_CRLP_ACKTIMERRANGE

RIL_PARAM_CRLP_RETRANSMISSIONATTSRANGE

RIL_PARAM_CRLP_RESEQPERIODRANGE

RIL_PARAM_CRLP_ALL

Comments None

RILCELLTOWERINFO Parameter Constants

Values

RIL_PARAM_CTI_MOBILECOUNTRYCODE

RIL_PARAM_CTI_MOBILENETWORKCODE

RIL_PARAM_CTI_LOCATIONAREACODE

RIL_PARAM_CTI_CELLID

RIL_PARAM_CTI_BASESTATIONID

RIL_PARAM_CTI_BROADCASTCONTROLCHANNEL

RIL_PARAM_CTI_RXLEVEL

RIL_PARAM_CTI_RXLEVELFULL

RIL_PARAM_CTI_RXLEVELSUB

RIL_PARAM_CTI_RXQUALITY

RIL_PARAM_CTI_RXQUALITYFULL

RIL_PARAM_CTI_RXQUALITYSUB

RIL_PARAM_CTI_IDLETIMESLOT

RIL_PARAM_CTI_TIMINGADVANCE

RIL_PARAM_CTI_GPRSCELLID

RIL_PARAM_CTI_GPRSBASESTATIONID

RIL_PARAM_CTI_ALL

Comments None

RILCLOSEDGROUPSETTINGS Parameter Constants

Values

RIL_PARAM_CGS_STATUS

RIL_PARAM_CGS_INDEX

RIL_PARAM_CGS_INFO

RIL_PARAM_CGS_ALL

Comments None

RILCONNECTINFO Parameter Constants

Values

RIL_PARAM_CNI_CALLTYPE

RIL_PARAM_CNI_BAUDRATE

RIL_PARAM_CNI_ALL

Comments None

RILCOSTINFO Parameter Constants

Values

RIL_PARAM_CSTI_CCM

RIL_PARAM_CSTI_ACM

RIL_PARAM_CSTI_MAXACM

RIL_PARAM_CSTI_COSTPERUNIT

RIL_PARAM_CSTI_CURRENCY

RIL_PARAM_CSTI_ALL

Comments None

RILDATACOMPINFO Parameter Constants

Values

RIL_PARAM_DCI_DIRECTION

RIL_PARAM_DCI_NEGOTIATION

RIL_PARAM_DCI_MAXDICTENTRIES

RIL_PARAM_DCI_MAXSTRING

RIL_PARAM_DCI_ALL

Comments None

RILDIALEDIDSETTINGS Parameter Constants

Values

RIL_PARAM_DIDS_PROVISIONING

RIL_PARAM_DIDS_STATUS

RIL_PARAM_DIDS_ALL

Comments None

RILDIALINFO Parameter Constants

Values

RIL_PARAM_DI_CMDID

RIL_PARAM_DI_CALLID

RIL_PARAM_DI_ALL

Comments None

RILEQUIPMENTINFO Parameter Constants

Values

RIL_PARAM_EI_MANUFACTURER

RIL_PARAM_EI_MODEL

RIL_PARAM_EI_REVISION

RIL_PARAM_EI_SERIALNUMBER

RIL_PARAM_EI_ALL

Comments None

RILEQUIPMENTSTATE Parameter Constants

Values

RIL_PARAM_EQUIPMENTSTATE_RADIOSUPPORT

RIL_PARAM_EQUIPMENTSTATE_EQSTATE

Comments None

RILERRORCORRECTIONINFO Parameter Constants

Values

RIL_PARAM_ECI_ORIGINALREQUEST

RIL_PARAM_ECI_ORIGINALFALLBACK

RIL_PARAM_ECI_ANSWERERFALLBACK

RIL_PARAM_ECI_ALL

Comments None

RILGAININFO Parameter Constants

Values

RIL_PARAM_GI_TXGAIN

RIL_PARAM_GI_RXGAIN

RIL_PARAM_GI_ALL

Comments None

RILGPRSCONTEXT Parameter Constants

Values

RIL_PARAM_GCONT_CONTEXTID

RIL_PARAM_GCONT_PROTOCOLTYPE

RIL_PARAM_GCONT_ACCESSPOINTNAME

RIL_PARAM_GCONT_ADDRESS

RIL_PARAM_GCONT_DATACOMPRESSION

RIL_PARAM_GCONT_HEADERCOMPRESSION

RIL_PARAM_GCONT_PARAMETERLENGTH

RIL_PARAM_GCONT_PARAMETERS

RIL_PARAM_GCONT_ALL

Comments None

RILGPRSPROTOCOLCAPS Parameter Constants

Values

RIL_PARAM_GPC_PROTOCOLID

RIL_PARAM_GPC_MINCONTEXTID

RIL_PARAM_GPC_MAXCONTEXTID

RIL_PARAM_GPC_DATACOMPRESSION

RIL_PARAM_GPC_HEADERCOMPRESSION

RIL_PARAM_GPC_PRECEDENCECLASS

RIL_PARAM_GPC_DELAYCLASS

RIL_PARAM_GPC_RELIABILITYCLASS

RIL_PARAM_GPC_PEAKTHRUCLASS

RIL_PARAM_GPC_MEANTHRUCLASS

RIL_PARAM_GPC_PARAMETERLENGTH

RIL_PARAM_GPC_PARAMETERS

RIL_PARAM_GPC_ALL

Comments None

RILGPRSQOSPROFILE Parameter Constants

Values	**RIL_PARAM_GQOSP_CONTEXTID**
	RIL_PARAM_GQOSP_PRECEDENCECLASS
	RIL_PARAM_GQOSP_DELAYCLASS
	RIL_PARAM_GQOSP_RELIABILITYCLASS
	RIL_PARAM_GQOSP_PEAKTHRUCLASS
	RIL_PARAM_GQOSP_MEANTHRUCLASS
	RIL_PARAM_GQOSP_ALL
Comments	None

RILHIDECONNECTEDIDSETTINGS Parameter Constants

Values	**RIL_PARAM_HCIDS_PROVISIONING**
	RIL_PARAM_HCIDS_STATUS
	RIL_PARAM_HCIDS_ALL
Comments	None

RILHIDEIDSETTINGS Parameter Constants

Values	**RIL_PARAM_HIDS_STATUS**
	RIL_PARAM_HIDS_PROVISIONING
	RIL_PARAM_HIDS_ALL
Comments	None

RILHSCSDINFO Parameter Constants

Values

RIL_PARAM_HSCSDI_TRANSPRXTIMESLOTS

RIL_PARAM_HSCSDI_TRANSPCHANNELCODINGS

RIL_PARAM_HSCSDI_NONTRANSPRXTIMESLOTS

RIL_PARAM_HSCSDI_NONTRANSPCHANNELCODINGS

RIL_PARAM_HSCSDI_AIRINTERFACEUSERRATE

RIL_PARAM_HSCSDI_RXTIMESLOTSLIMIT

RIL_PARAM_HSCSDI_AUTOSVCLEVELUPGRADING

RIL_PARAM_HSCSDI_ALL

Comments None

RILMESSAGE Parameter Constants

Values

RIL_PARAM_M_SVCCTRADDRESS

RIL_PARAM_M_TYPE

RIL_PARAM_M_FLAGS

RIL_PARAM_M_ORIGADDRESS

RIL_PARAM_M_TGTRECIPADDRESS

RIL_PARAM_M_DESTADDRESS

RIL_PARAM_M_SCRECEIVETIME

RIL_PARAM_M_TGTSCRECEIVETIME

RIL_PARAM_M_TGTDISCHARGETIME

RIL_PARAM_M_PROTOCOLID

RIL_PARAM_M_DATACODING

RIL_PARAM_M_TGTDLVSTATUS

RIL_PARAM_M_TGTMSGREFERENCE

RIL_PARAM_M_VPFORMAT

RIL_PARAM_M_VP

RIL_PARAM_M_COMMANDTYPE

RIL_PARAM_M_GEOSCOPE

RIL_PARAM_M_MSGCODE

RIL_PARAM_M_UPDATENUMBER

RIL_PARAM_M_ID

RIL_PARAM_M_TOTALPAGES

RIL_PARAM_M_PAGENUMBER

RIL_PARAM_M_HDRLENGTH

RIL_PARAM_M_MSGLENGTH

RIL_PARAM_M_CMDLENGTH

RIL_PARAM_M_HDR

RIL_PARAM_M_MSG

RIL_PARAM_M_CMD

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

RIL_PARAM_M_CMD

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

Comments None

RILMESSAGE_IN_SIM Parameter Constants

Values **0x00000001**

0x00000002

Comments None

RILMESSAGEINFO Parameter Constants

Values **RIL_PARAM_MI_INDEX**

RIL_PARAM_MI_STATUS

RIL_PARAM_MI_MESSAGE

Comments None

RILMSGCONFIG Parameter Constants

Values

RIL_PARAM_MC_SVCCTRADDRESS

RIL_PARAM_MC_BROADCASTMSGIDS

RIL_PARAM_MC_BROADCASTMSGLANGS

RIL_PARAM_MC_ALL

Comments None

RILMSGDCS Parameter Constants

Values

RIL_PARAM_MDCS_TYPE

RIL_PARAM_MDCS_FLAGS

RIL_PARAM_MDCS_MSGCLASS

RIL_PARAM_MDCS_ALPHABET

RIL_PARAM_MDCS_INDICATION

RIL_PARAM_MDCS_LANGUAGE

RIL_PARAM_MDCS_ALL

Comments None

RILMSGSERVICEINFO Parameter Constants

Values

RIL_PARAM_MSI_SERVICE

RIL_PARAM_MSI_MSGCLASSES

RIL_PARAM_MSI_READLOCATION

RIL_PARAM_MSI_READUSED

RIL_PARAM_MSI_READTOTAL

RIL_PARAM_MSI_WRITELOCATION

RIL_PARAM_MSI_WRITEUSED

RIL_PARAM_MSI_WRITETOTAL

RIL_PARAM_MSI_STORELOCATION

RIL_PARAM_MSI_STOREUSED

RIL_PARAM_MSI_STORETOTAL

RIL_PARAM_MSI_ALL

Comments None

RILMSGSTORAGEINFO Parameter Constants

Values

RIL_PARAM_MSTI_READLOCATION

RIL_PARAM_MSTI_WRITELOCATION

RIL_PARAM_MSTI_STORELOCATION

RIL_PARAM_MSTI_ALL

Comments None

RILOPERATORINFO Parameter Constants

Values

RIL_PARAM_OI_INDEX

RIL_PARAM_OI_STATUS

RIL_PARAM_OI_NAMES

RIL_PARAM_OI_ALL

Comments None

RILOPERATORNAMES Parameter Constants

Values

RIL_PARAM_ON_LONGNAME

RIL_PARAM_ON_SHORTNAME

RIL_PARAM_ON_NUMNAME

RIL_PARAM_ON_ALL

Comments None

RILPHONEBOOKENTRY Parameter Constants

Values

RIL_PARAM_PBE_INDEX

RIL_PARAM_PBE_ADDRESS

RIL_PARAM_PBE_TEXT

RIL_PARAM_PBE_ALL

Comments None

RILPHONEBOOKINFO Parameter Constants

Values

RIL_PARAM_PBI_STORELOCATION

RIL_PARAM_PBI_USED

RIL_PARAM_PBI_TOTAL

RIL_PARAM_PBI_ALL

Comments None

RILREMOTEPARTYINFO Parameter Constants

Values

RIL_PARAM_RPI_ADDRESS

RIL_PARAM_RPI_SUBADDRESS

RIL_PARAM_RPI_DESCRIPTION

RIL_PARAM_RPI_VALIDITY

RIL_PARAM_RPI_ALL

Comments None

RILRINGINFO Parameter Constants

Values

RIL_PARAM_RI_CALLTYPE

RIL_PARAM_RI_SERVICEINFO

RIL_PARAM_RI_ADDRESSID

RIL_PARAM_RI_ALL

Comments None

RILRLPINFO Parameter Constants

Values

RIL_PARAM_RLPI_IWS

RIL_PARAM_RLPI_MWS

RIL_PARAM_RLPI_ACKTIMER

RIL_PARAM_RLPI_RETRANSMISSIONATTEMPTS

RIL_PARAM_RLPI_VERSION

RIL_PARAM_RPLI_RESEQUENCINGPERIOD

RIL_PARAM_RPLI_ALL

Comments None

RILSERIALPORTSTATS Parameter Constants

Values

RIL_PARAM_SPS_READBITSPERSECOND

RIL_PARAM_SPS_WRITTENBITSPERSECOND

RIL_PARAM_SPS_ALL

Comments None

RILSERVICEINFO Parameter Constants

Values

RIL_PARAM_SVCI_SYNCHRONOUS

RIL_PARAM_SVCI_TRANSPARENT

RIL_PARAM_SVCI_ALL

Comments None

RILSIGNALQUALITY Parameter Constants

Values

RIL_PARAM_SQ_SIGNALSTRENGTH

RIL_PARAM_SQ_MINSIGNALSTRENGTH

RIL_PARAM_SQ_MAXSIGNALSTRENGTH

RIL_PARAM_SQ_BITERRORRATE

RIL_PARAM_SQ_LOWSIGNALSTRENGTH

RIL_PARAM_SQ_HIGHSIGNALSTRENGTH

RIL_PARAM_SQ_ALL

Comments None

RILSIMCMDPARAMETERS Parameter Constants

Values

RIL_PARAM_SCP_FILEID

RIL_PARAM_SCP_PARAM1

RIL_PARAM_SCP_PARAM2

RIL_PARAM_SCP_PARAM3

RIL_PARAM_SCP_ALL

Comments None

RILSIMRECORDSTATUS Parameter Constants

Values

RIL_PARAM_SRS_RECORDTYPE

RIL_PARAM_SRS_ITEMCOUNT

RIL_PARAM_SRS_SIZE

RIL_PARAM_SRS_ALL

Comments None

RILSIMRESPONSE Parameter Constants

Values

RIL_PARAM_SR_STATUSWORD1

RIL_PARAM_SR_STATUSWORD2

RIL_PARAM_SR_RESPONSE

RIL_PARAM_SR_ALL

Comments

None

RILSIMTOOLKITNOTIFYCAPS Parameter Constants

Values

RIL_PARAM_SIMTKN_REFRESH

RIL_PARAM_SIMTKN_MORETIME

RIL_PARAM_SIMTKN_POLLINTERVAL

RIL_PARAM_SIMTKN_POLLINGOFF

RIL_PARAM_SIMTKN_SETUPCALL

RIL_PARAM_SIMTKN_SENDSS

RIL_PARAM_SIMTKN_SENDSMS

RIL_PARAM_SIMTKN_PLAYTONE

RIL_PARAM_SIMTKN_DISPLAYTEXT

RIL_PARAM_SIMTKN_GETINKEY

RIL_PARAM_SIMTKN_GETINPUT

RIL_PARAM_SIMTKN_SELECTITEM

RIL_PARAM_SIMTKN_SETUPMENU

RIL_PARAM_SIMTKN_LOCALINFO

RIL_PARAM_SIMTKN_NOTIFYFLAGS

RIL_PARAM_SIMTKN_ALL

Comments Parameters for LPRILSIMTOOLKITNOTIFYCAPS -> dwParams

RILSIMTOOLKITNOTIFYCAPS Parameter Constants

RILSUBADDRESS Parameter Constants

Values

RIL_PARAM_SA_TYPE

RIL_PARAM_SA_SUBADDRESS

RIL_PARAM_SA_ALL

Comments None

RILSUBSCRIBERINFO Parameter Constants

Values

RIL_PARAM_SI_ADDRESS

RIL_PARAM_SI_DESCRIPTION

RIL_PARAM_SI_SPEED

RIL_PARAM_SI_SERVICE

RIL_PARAM_SI_ITC

RIL_PARAM_SI_ADDRESSID

RIL_PARAM_SI_ALL

Comments None

RILSUPSERVICEDATA Parameter Constants

Values

RIL_PARAM_SSDI_STATUS

RIL_PARAM_SSDI_DATA

Comments None

Address Type Constants

Description Different phone number representations

Values

RIL_ADDRTYPE_UNKNOWN
Unknown type

RIL_ADDRTYPE_INTERNATIONAL
International number

RIL_ADDRTYPE_NATIONAL
National number

RIL_ADDRTYPE_NETWKSPECIFIC
Network specific number

RIL_ADDRTYPE_SUBSCRIBER
Subscriber number (protocol-specific)

RIL_ADDRTYPE_ALPHANUM
Alphanumeric address

RIL_ADDRTYPE_ABBREV
Abbreviated number

Comments None

API Result Constants

Description API call results (RIL_NCLASS_FUNCRESULT)

Values

RIL_RESULT_OK
RIL API call succeded; lpData is NULL

RIL_RESULT_NOCARRIER
RIL API failed because no carrier was detected; lpData is NULL

RIL_RESULT_ERROR
RIL API failed; lpData points to RIL_E_* constant

RIL_RESULT_NODIALTONE
RIL API failed because no dialtone was detected; lpData is NULL

RIL_RESULT_BUSY
RIL API failed because the line was busy; lpData is NULL

RIL_RESULT_NOANSWER
RIL API failed because of the lack of answer; lpData is NULL

Comments None

Audio Device Constants

Description Audio devices

Values

RIL_AUDIO_NONE
No audio devices

RIL_AUDIO_HANDSET
Handset

RIL_AUDIO_SPEAKERPHONE
Speakerphone

RIL_AUDIO_HEADSET
Headset

RIL_AUDIO_CARKIT
Carkit

Comments None

Bearer CE Constants

Description Bearer service connection element capabilities

Values

RIL_CAPS_BSVCCE_TRANSPARENT
TBD

RIL_CAPS_BSVCCE_NONTRANSPARENT
TBD

RIL_CAPS_BSVCCE_BOTH_TRANSPARENT
TBD

RIL_CAPS_BSVCCE_BOTH_NONTRANSPARENT
TBD

Comments None

Bearer Service Constants

Description Bearer service names

Values

RIL_BSVCNAME_UNKNOWN
TBD

RIL_BSVCNAME_DATACIRCUIT_ASYNC_UDI_MODEM
TBD

RIL_BSVCNAME_DATACIRCUIT_SYNC_UDI_MODEM
TBD

RIL_BSVCNAME_PADACCESS_ASYNC_UDI
TBD

RIL_BSVCNAME_PACKETACCESS_SYNC_UDI
TBD

RIL_BSVCNAME_DATACIRCUIT_ASYNC_RDI
TBD

RIL_BSVCNAME_DATACIRCUIT_SYNC_RDI
TBD

RIL_BSVCNAME_PADACCESS_ASYNC_RDI
TBD

RIL_BSVCNAME_PACKETACCESS_SYNC_RDI
TBD

Comments None

Bearer Service CE Constants

Description Bearer service connection elements

Values

RIL_BSVCCE_UNKNOWN
Bearer service unknown

RIL_BSVCCE_TRANSPARENT
Link layer correction enabled

RIL_BSVCCE_NONTRANSPARENT
No link layer correction present

RIL_BSVCCE_BOTH_TRANSPARENT
Both available, transparent preferred

RIL_BSVCCE_BOTH_NONTRANSPARENT
Both available, non-transparent preferred

Comments None

Bit Error Rate Constants

Description Special bit error rate value

Values

RIL_BITERRORRATE_UNKNOWN
Unknown signal strength

Comments None

Call Barr Facility Constants

Description Types of call barring

Values

RIL_BARRTYPE_ALLOUTGOING
Barr all outgoing calls

RIL_BARRTYPE_OUTGOINGINT
Barr outgoing international calls

RIL_BARRTYPE_OUTGOINGINTEXTOHOME
Barr outgoing international calls except to home country

RIL_BARRTYPE_ALLINCOMING
Barr all incoming calls

RIL_BARRTYPE_INCOMINGROAMING
Barr incoming calls when roaming outside of home country

RIL_BARRTYPE_INCOMINGNOTINSIM
Barr incoming calls from numbers not stored to SIM memory

RIL_BARRTYPE_ALLBARRING
All barring services

RIL_BARRTYPE_ALLOUTGOINGBARRING
All outgoing barring services

RIL_BARRTYPE_ALLINCOMINGBARRING
All incoming barring services

Comments None

Call Barr Status Constants

Description Status values for call barring

Values
RIL_BARRINGSTATUS_DISABLED
Disable

RIL_BARRINGSTATUS_ENABLED
Disable

Comments None

Call Direction Constants

Description Call direction

Values
RIL_CALLDIR_INCOMING
Incoming call

RIL_CALLDIR_OUTGOING
Outgoing call

Comments None

Call Management Constants

Description Call management commands

Values
RIL_CALLCMD_RELEASEHELD
Release all held calls, send "busy" to waiting call

RIL_CALLCMD_RELEASEACTIVE_ACCEPTHELD
Release all active calls, accept waiting/held call

RIL_CALLCMD_RELEASECALL
Release the specified call

RIL_CALLCMD_HOLDACTIVE_ACCEPTHELD
Hold all active calls, accept waiting/held call

RIL_CALLCMD_HOLDALLBUTONE
Hold all active calls, except for the specified call

RIL_CALLCMD_ADDHELDTOCONF
Add all held calls to a conference

RIL_CALLCMD_ADDHELDTOCONF_DISCONNECT
Connect held calls to a conference, disconnect the user

RIL_CALLCMD_INVOKECCBS
Invokes completion of calls to busy subscribers

Comments None

Call Multiparty Constants

Description Call multiparty status values

Values

RIL_CALL_SINGLEPARTY
Not in a conference

RIL_CALL_MULTIPARTY
Participating in a conference

Comments None

Call Option Constants

Description Call options defaults

Values

RIL_DIALTONEWAIT_DEFAULT
TBD

RIL_DIALTIMEOUT_DEFAULT
TBD

RIL_COMMAPAUSE_DEFAULT
TBD

RIL_DISCONNECTTIMEOUT_DEFAULT
TBD

Comments None

Call Status Constants

Description Call status values

Values

RIL_CALLSTAT_ACTIVE
Active call

RIL_CALLSTAT_ONHOLD
Call on hold

RIL_CALLSTAT_DIALING
In the process of dialing

RIL_CALLSTAT_ALERTING
In the process of ringing

RIL_CALLSTAT_INCOMING
Incoming (unanswered) call

RIL_CALLSTAT_WAITING
Incoming call waiting call

Comments None

Call Type Constants

Description Call types

Values

RIL_CALLTYPE_UNKNOWN
Unknown

RIL_CALLTYPE_VOICE
Voice call

RIL_CALLTYPE_DATA
Data call

RIL_CALLTYPE_FAX
Fax call

Comments None

Caps Bearer Name Constants

Description Bearer service name capabilities

Values

RIL_CAPS_BSVCNAME_DATACIRCUIT_ASYNC_UDI_MODEM
TBD

RIL_CAPS_BSVCNAME_DATACIRCUIT_SYNC_UDI_MODEM
TBD

RIL_CAPS_BSVCNAME_PADACCESS_ASYNC_UDI
TBD

RIL_CAPS_BSVCNAME_PACKETACCESS_SYNC_UDI
TBD

RIL_CAPS_BSVCNAME_DATACIRCUIT_ASYNC_RDI
TBD

RIL_CAPS_BSVCNAME_DATACIRCUIT_SYNC_RDI
TBD

RIL_CAPS_BSVCNAME_PADACCESS_ASYNC_RDI
TBD

RIL_CAPS_BSVCNAME_PACKETACCESS_SYNC_RDI
TBD

Comments None

Caps Bearer Speed1 Constants

Description Bearer service speed capabilities (first set)

Values

RIL_CAPS_SPEED1_AUTO
TBD

RIL_CAPS_SPEED1_300_V21
TBD

RIL_CAPS_SPEED1_300_V110
TBD

RIL_CAPS_SPEED1_1200_V22
TBD

RIL_CAPS_SPEED1_1200_75_V23
TBD

RIL_CAPS_SPEED1_1200_V110
TBD

RIL_CAPS_SPEED1_1200_V120
TBD

RIL_CAPS_SPEED1_2400_V22BIS
TBD

RIL_CAPS_SPEED1_2400_V26TER
TBD

RIL_CAPS_SPEED1_2400_V110
TBD

RIL_CAPS_SPEED1_2400_V120
TBD

RIL_CAPS_SPEED1_4800_V32
TBD

RIL_CAPS_SPEED1_4800_V110
TBD

RIL_CAPS_SPEED1_4800_V120
TBD

RIL_CAPS_SPEED1_9600_V32
TBD

RIL_CAPS_SPEED1_9600_V34
TBD

RIL_CAPS_SPEED1_9600_V110
TBD

RIL_CAPS_SPEED1_9600_V120
TBD

RIL_CAPS_SPEED1_14400_V34
TBD

RIL_CAPS_SPEED1_14400_V110
TBD

RIL_CAPS_SPEED1_14400_V120
TBD

RIL_CAPS_SPEED1_19200_V34
TBD

RIL_CAPS_SPEED1_19200_V110
TBD

RIL_CAPS_SPEED1_19200_V120
TBD

RIL_CAPS_SPEED1_28800_V34
TBD

RIL_CAPS_SPEED1_28800_V110
TBD

RIL_CAPS_SPEED1_28800_V120
TBD

RIL_CAPS_SPEED1_38400_V110
TBD

RIL_CAPS_SPEED1_38400_V120
TBD

RIL_CAPS_SPEED1_48000_V110
TBD

RIL_CAPS_SPEED1_48000_V120
TBD

RIL_CAPS_SPEED1_56000_V110
TBD

Comments None

Caps Bearer Speed2 Constants

Description Bearer service speed capabilities (second set)
Values **RIL_CAPS_SPEED2_56000_V120**
TBD

RIL_CAPS_SPEED2_56000_TRANSP
TBD

RIL_CAPS_SPEED2_64000_TRANSP
TBD

Comments None

Caps Call Barr Constants

Description Call barring capabilities

Values

RIL_CAPS_BARRTYPE_ALLOUTGOING
TBD

RIL_CAPS_BARRTYPE_OUTGOINGINT
TBD

RIL_CAPS_BARRTYPE_OUTGOINGINTEXTOHOME
TBD

RIL_CAPS_BARRTYPE_ALLINCOMING
TBD

RIL_CAPS_BARRTYPE_INCOMINGROAMING
TBD

RIL_CAPS_BARRTYPE_INCOMINGNOTINSIM
TBD

RIL_CAPS_BARRTYPE_ALLBARRING
TBD

RIL_CAPS_BARRTYPE_ALLOUTGOINGBARRING
TBD

RIL_CAPS_BARRTYPE_ALLINCOMINGBARRING
TBD

Comments None

Caps Call Mgmt Constants

Description Call management command capabilities

Values

RIL_CAPS_CALLCMD_RELEASEHELD
TBD

RIL_CAPS_CALLCMD_RELEASEACTIVE_ACCEPTHELD
TBD

RIL_CAPS_CALLCMD_RELEASECALL
TBD

RIL_CAPS_CALLCMD_HOLDACTIVE_ACCEPTHELD
TBD

RIL_CAPS_CALLCMD_HOLDALLBUTONE
TBD

RIL_CAPS_CALLCMD_ADDHELDTOCONF
TBD

RIL_CAPS_CALLCMD_ADDHELDTOCONF_DISCONNECT
TBD

RIL_CAPS_CALLCMD_INVOKECCBS
TBD

Comments None

Caps Call Type Constants

Description Call type capabilities

Values

RIL_CAPS_CALLTYPE_VOICE
TBD

RIL_CAPS_CALLTYPE_DATA
TBD

RIL_CAPS_CALLTYPE_FAX
TBD

Comments None

Caps DCS Language Constants

Description Message broadcast data coding scheme language capabilities

Values

RIL_DCSLANG_GERMAN
TBD

RIL_DCSLANG_ENGLISH
TBD

RIL_DCSLANG_ITALIAN
TBD

RIL_DCSLANG_FRENCH
TBD

RIL_DCSLANG_SPANISH
TBD

RIL_DCSLANG_DUTCH
TBD

RIL_DCSLANG_SWEDISH
TBD

RIL_DCSLANG_DANISH
TBD

RIL_DCSLANG_PORTUGUESE
TBD

RIL_DCSLANG_FINNISH
TBD

RIL_DCSLANG_NORWEGIAN
TBD

RIL_DCSLANG_GREEK
TBD

RIL_DCSLANG_TURKISH
TBD

RIL_DCSLANG_HUNGARIAN
TBD

RIL_DCSLANG_POLISH
TBD

RIL_DCSLANG_CZECH
TBD

Comments None

Caps Dialing Option Constants

Description Dialing options capabilities

Values

RIL_CAPS_DIALOPT_RESTRICTID
TBD

RIL_CAPS_DIALOPT_PRESENTID
TBD

RIL_CAPS_DIALOPT_CLOSEDGROUP
TBD

Comments None

Caps Equipment Constants

Description Equipment state capabilities

Values

RIL_CAPS_EQSTATE_MINIMUM
TBD

RIL_CAPS_EQSTATE_FULL
TBD

RIL_CAPS_EQSTATE_DISABLETX
TBD

RIL_CAPS_EQSTATE_DISABLERX
TBD

RIL_CAPS_EQSTATE_DISABLETXANDRX
TBD

Comments None

Caps Forwarding Constants

Description Forwarding reason capabilities

Values

RIL_CAPS_FWDREASON_UNCONDITIONAL
TBD

RIL_CAPS_FWDREASON_MOBILEBUSY
TBD

RIL_CAPS_FWDREASON_NOREPLY
TBD

RIL_CAPS_FWDREASON_UNREACHABLE
TBD

RIL_CAPS_FWDREASON_ALLFORWARDING
TBD

RIL_CAPS_FWDREASON_ALLCONDITIONAL
TBD

Comments None

Caps HSCSD Air Interface Constants

Description HSCSD air interface user rate capabilities

Values

RIL_CAPS_HSCSDAIURATE_9600
TBD

RIL_CAPS_HSCSDAIURATE_14400
TBD

RIL_CAPS_HSCSDAIURATE_19200
TBD

RIL_CAPS_HSCSDAIURATE_28800
TBD

RIL_CAPS_HSCSDAIURATE_38400
TBD

RIL_CAPS_HSCSDAIURATE_43200
TBD

RIL_CAPS_HSCSDAIURATE_57600
TBD

Comments None

Caps HSCSD Traffic Channel Constants

Description HSCSD traffic channel coding capabilities

Values

RIL_CAPS_HSCSDCODING_4800_FULLRATE
TBD

RIL_CAPS_HSCSDCODING_9600_FULLRATE
TBD

RIL_CAPS_HSCSDCODING_14400_FULLRATE
TBD

Comments None

Caps Info Class Constants

Description Telephony information class capabilities

Values

RIL_CAPS_INFOCLASS_VOICE
TBD

RIL_CAPS_INFOCLASS_DATA
TBD

RIL_CAPS_INFOCLASS_FAX
TBD

RIL_CAPS_INFOCLASS_SMS
TBD

RIL_CAPS_INFOCLASS_DATACIRCUITSYNC
TBD

RIL_CAPS_INFOCLASS_DATACIRCUITASYNC
TBD

RIL_CAPS_INFOCLASS_PACKETACCESS
TBD

RIL_CAPS_INFOCLASS_PADACCESS
TBD

Comments None

Caps Message Service Constants

Description Message service type capabilities

Values

RIL_CAPS_MSGSVCTYPE_PHASE2
TBD

RIL_CAPS_MSGSVCTYPE_PHASE2PLUS
TBD

Comments None

Caps Message Status Constants

Description Message status capabilities

Values

RIL_CAPS_MSGSTATUS_RECUNREAD
TBD

RIL_CAPS_MSGSTATUS_RECREAD
TBD

RIL_CAPS_MSGSTATUS_STOUNSENT
TBD

RIL_CAPS_MSGSTATUS_STOSENT
TBD

Comments None

Caps Message Storage Constants

Description Message storage location capabilities

Values

RIL_CAPS_MSGLOC_BROADCAST
TBD

RIL_CAPS_MSGLOC_SIM
TBD

RIL_CAPS_MSGLOC_STATUSREPORT
TBD

Comments None

Caps Phone Lock Constants

Description Locking faciliy capabilities

Values

RIL_CAPS_LOCKFACILITY_CNTRL
TBD

RIL_CAPS_LOCKFACILITY_PH_SIM
TBD

RIL_CAPS_LOCKFACILITY_PH_FSIM
TBD

RIL_CAPS_LOCKFACILITY_SIM
TBD

RIL_CAPS_LOCKFACILITY_SIM_PIN2
TBD

RIL_CAPS_LOCKFACILITY_SIM_FIXEDIALING
TBD

RIL_CAPS_LOCKFACILITY_NETWORKPERS
TBD

RIL_CAPS_LOCKFACILITY_NETWORKSUBPERS
TBD

RIL_CAPS_LOCKFACILITY_SERVICEPROVPERS
TBD

RIL_CAPS_LOCKFACILITY_CORPPERS
TBD

Comments None

Caps Phonebook Constants

Description Phonebook storage location capabilities

Values

RIL_CAPS_PBLOC_SIMEMERGENCY
TBD

RIL_CAPS_PBLOC_SIMFIXDIALING
TBD

RIL_CAPS_PBLOC_SIMLASTDIALING
TBD

RIL_CAPS_PBLOC_OWNNUMBERS
TBD

RIL_CAPS_PBLOC_SIMPHONEBOOK
TBD

Comments None

Caps SIM Toolkit Constants

Description SIM Toolkit notification capabilities

Values

RIL_CAPS_NOTIFY_SIMTOOLKITCMD
TBD

RIL_CAPS_NOTIFY_SIMTOOLKITCALLSETUP
TBD

RIL_CAPS_NOTIFY_SIMTOOLKITEVENT
TBD

Comments None

Caps Type Constants

Description Capability types.

Values

RIL_CAPSTYPE_DIAL
TBD

RIL_CAPSTYPE_DTMFDURATIONRANGE
TBD

RIL_CAPSTYPE_CALLMGTCMDS
TBD

RIL_CAPSTYPE_BEARERSERVICE
TBD

RIL_CAPSTYPE_RLP
TBD

RIL_CAPSTYPE_EQUIPMENTSTATES
TBD

RIL_CAPSTYPE_PBSTORELOCATIONS
TBD

RIL_CAPSTYPE_PBINDEXRANGE
TBD

RIL_CAPSTYPE_PBENTRYTEXTLENGTH
TBD

RIL_CAPSTYPE_MSGSERVICETYPES
TBD

RIL_CAPSTYPE_MSGMEMORYLOCATIONS
TBD

RIL_CAPSTYPE_BROADCASTMSGLANGS
TBD

RIL_CAPSTYPE_MSGCONFIGINDEXRANGE
TBD

RIL_CAPSTYPE_MSGSTATUSVALUES
TBD

RIL_CAPSTYPE_PREFOPINDEXRANGE
TBD

RIL_CAPSTYPE_LOCKFACILITIES
TBD

RIL_CAPSTYPE_LOCKINGPWDLENGTHS
TBD

RIL_CAPSTYPE_BARRTYPES
TBD

RIL_CAPSTYPE_BARRINGPWDLENGTHS
TBD

RIL_CAPSTYPE_FORWARDINGREASONS
TBD

RIL_CAPSTYPE_INFOCLASSES
TBD

RIL_CAPSTYPE_HSCSD
TBD

RIL_CAPSTYPE_SIMTOOLKITNOTIFICATIONS
TBD

RIL_CAPSTYPE_GPRSCLASS
TBD

RIL_CAPSTYPE_GPRSCONTEXT
TBD

RIL_CAPSTYPE_GPRSQOS
TBD

RIL_CAPSTYPE_GPRSQOSMIN
TBD

RIL_CAPSTYPE_GPRSMOSMS
TBD

Comments None

Complete Call Busy Constants

Description Special value for all CCBS

Values
RIL_CCBS_ALL
All CCBS

Comments None

CUG Info Level Constants

Description Closed User Group information levels

Values
RIL_CUGINFO_NONE
TBD

RIL_CUGINFO_SUPPRESSOA
TBD

RIL_CUGINFO_SUPRESSPREF
TBD

RIL_CUGINFO_SUPPRESSOAANDPREF
TBD

Comments This feature is not used in Stinger and is untested.

CUG Special Constants

Description Closed User Group special index value

Values
RIL_CUGINDEX_NONE
Used to identify the absence of CUG index

Comments None

Data Compression Constants

Description Data compression directions

Values
RIL_DATACOMPDIR_NONE
No data compression

RIL_DATACOMPDIR_TRANSMIT
Data compession when sending

RIL_DATACOMPDIR_RECEIVE
Data compession when receiving

RIL_DATACOMPDIR_BOTH
Bi-directional data compession

Comments None

Data Compression Negotiation Constants

Description Data compression negotiation options

Values
RIL_DATACOMP_OPTIONAL
Data compression optional

RIL_DATACOMP_REQUIRED
Terminal will disconnect if no negotiation

Comments None

Data Rate Constants

Description Defines different protocol dependant data rates

Values
RIL_SPEED_UNKNOWN
Unknown speed

RIL_SPEED_AUTO
Automatic selection of speed

RIL_SPEED_300_V21
300 bps (V.21)

RIL_SPEED_300_V110
300 bps (V.100)

RIL_SPEED_1200_V22
1200 bps (V.22)

RIL_SPEED_1200_75_V23
1200/75 bps (V.23)

RIL_SPEED_1200_V110
1200 bps (V.100)

RIL_SPEED_1200_V120
1200 bps (V.120)

RIL_SPEED_2400_V22BIS
2400 bps (V.22bis)

RIL_SPEED_2400_V26TER
2400 bps (V.26ter)

RIL_SPEED_2400_V110
2400 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_2400_V120
2400 bps (V.120)

RIL_SPEED_4800_V32
4800 bps (V.32)

RIL_SPEED_4800_V110
4800 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_4800_V120
4800 bps (V.120)

RIL_SPEED_9600_V32
9600 bps (V.32)

RIL_SPEED_9600_V34
9600 bps (V.34)

RIL_SPEED_9600_V110
9600 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_9600_V120
9600 bps (V.120)

RIL_SPEED_14400_V34
14400 bps (V.34)

RIL_SPEED_14400_V110
14400 bps (V.100 or X.31 flag stuffing)

RIL_SPEED_14400_V120
14400 bps (V.120)

RIL_SPEED_19200_V34
19200 bps (V.34)

RIL_SPEED_19200_V110
19200 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_19200_V120
19200 bps (V.120)

RIL_SPEED_28800_V34
28800 bps (V.34)

RIL_SPEED_28800_V110
28800 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_28800_V120
28800 bps (V.120)

RIL_SPEED_38400_V110
38400 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_38400_V120
38400 bps (V.120)

RIL_SPEED_48000_V110
48000 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_48000_V120
48000 bps (V.120)

RIL_SPEED_56000_V110
56000 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_56000_V120
56000 bps (V.120)

RIL_SPEED_56000_TRANSP
56000 bps (bit transparent)

RIL_SPEED_64000_TRANSP
64000 bps (bit transparent)

Comments None

Dialing Option Constants

Description Dialing options

Values

RIL_DIALOPT_NONE
No options

RIL_DIALOPT_RESTRICTID
Restrict CLI presentation

RIL_DIALOPT_PRESENTID
Allow CLI presentation

RIL_DIALOPT_CLOSEDGROUP
Closed User Group dialing

RIL_DIALOPT_ALL
All options

Comments None

Disconnect Initiation Constants

Description Disconnect initiation values

Values

RIL_DISCINIT_LOCAL
Local party initiated

RIL_DISCINIT_REMOTE
Remote party initiated

Comments None

Driver defined Radio ON vs OFF State Constants

Description Radio ON/OFF states

Values

RIL_RADIOSUPPORT_UNKNOWN
The Radio Functionality is in an intermediate state

RIL_RADIOSUPPORT_OFF
The Radio Functionality is OFF (DOES NOT Neccessarily mean safe for flight)

RIL_RADIOSUPPORT_ON
The Radio Functionality is ON

Comments These values normally depend on the Equiptment state

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DTMF Duration Constants

Description DTMF tone duration default

Values

RIL_DTMFDURATION_DEFAULT
TBD

Comments None

Equipment State Constants

Description Equipment states

Values

RIL_EQSTATE_UNKNOWN
Unknown

RIL_EQSTATE_MINIMUM
Minimum power state

RIL_EQSTATE_FULL
Full functionality

RIL_EQSTATE_DISABLETX
Transmitter disabled

RIL_EQSTATE_DISABLERX
Receiver disabled

RIL_EQSTATE_DISABLETXANDRX
Transmitter & receiver disabled

Comments None

Error Constants

Description Error codes

Values

RIL_E_PHONEFAILURE
Unspecified phone failure

RIL_E_NOCONNECTION
RIL has no connection to the phone

RIL_E_LINKRESERVED
RIL's link to the phone is reserved

RIL_E_OPNOTALLOWED
Attempted operation isn't allowed

RIL_E_OPNOTSUPPORTED
Attempted operation isn't supported

RIL_E_PHSIMPINREQUIRED
PH-SIM PIN is required to perform this operation

RIL_E_PHFSIMPINREQUIRED
PH-FSIM PIN is required to perform this operation

RIL_E_PHFSIMPUKREQUIRED
PH-FSIM PUK is required to perform this operation

RIL_E_SIMNOTINSERTED
SIM isn't inserted into the phone

RIL_E_SIMPINREQUIRED
SIM PIN is required to perform this operation

RIL_E_SIMPUKREQUIRED
SIM PUK is required to perform this operation

RIL_E_SIMFAILURE
SIM failure was detected

RIL_E_SIMBUSY
SIM is busy

RIL_E_SIMWRONG
Inorrect SIM was inserted

RIL_E_INCORRECTPASSWORD
Incorrect password was supplied

RIL_E_SIMPIN2REQUIRED
SIM PIN2 is required to perform this operation

RIL_E_SIMPUK2REQUIRED
SIM PUK2 is required to perform this operation

RIL_E_MEMORYFULL
Storage memory is full

RIL_E_INVALIDINDEX
Invalid storage index was supplied

RIL_E_NOTFOUND
A requested storage entry was not found

RIL_E_MEMORYFAILURE
Storage memory failure

RIL_E_TEXTSTRINGTOOLONG
Supplied text string is too long

RIL_E_INVALIDTEXTSTRING
Supplied text string contains invalid characters

RIL_E_DIALSTRINGTOOLONG
Supplied dial string is too long

RIL_E_INVALIDDIALSTRING
Supplied dial string contains invalid characters

RIL_E_NONETWORKSVC
Network service isn't available

RIL_E_NETWORKTIMEOUT
Network operation timed out

RIL_E_EMERGENCYONLY
Network can only be used for emergency calls

RIL_E_NETWKPINREQUIRED
Network Personalization PIN is required to perform this operation

RIL_E_NETWKPUKREQUIRED
Network Personalization PUK is required to perform this operation

RIL_E_SUBSETPINREQUIRED
Network Subset Personalization PIN is required to perform this operation

RIL_E_SUBSETPUKREQUIRED
Network Subset Personalization PUK is required to perform this operation

RIL_E_SVCPINREQUIRED
Service Provider Personalization PIN is required to perform this operation

RIL_E_SVCPUKREQUIRED
Service Provider Personalization PUK is required to perform this operation

RIL_E_CORPPINREQUIRED
Corporate Personalization PIN is required to perform this operation

RIL_E_CORPPUKREQUIRED
Corporate Personalization PUK is required to perform this operation

RIL_E_TELEMATICIWUNSUPPORTED
Telematic interworking isn't supported

RIL_E_SMTYPE0UNSUPPORTED
Type 0 messages aren't supported

RIL_E_CANTREPLACEMSG
Existing message cannot be replaced

RIL_E_PROTOCOLIDERROR
Uspecified error related to the message Protocol ID

RIL_E_DCSUNSUPPORTED
Specified message Data Coding Scheme isn't supported

RIL_E_MSGCLASSUNSUPPORTED
Specified message class isn't supported

RIL_E_DCSERROR
Unspecified error related to the message Data Coding Scheme

RIL_E_CMDCANTBEACTIONED
Specified message Command cannot be executed

RIL_E_CMDUNSUPPORTED
Specified message Command isn't supported

RIL_E_CMDERROR
Unspecified error related to the message Command

RIL_E_MSGBODYHEADERERROR
Unspecified error related to the message Body or Header

RIL_E_SCBUSY
Message Service Center is busy

RIL_E_NOSCSUBSCRIPTION
No message Service Center subscription

RIL_E_SCSYSTEMFAILURE
Message service Center system failure occurred

RIL_E_INVALIDADDRESS
Specified address is invalid

RIL_E_DESTINATIONBARRED
Message destination is barred

RIL_E_REJECTEDDUPLICATE
Duplicate message was rejected

RIL_E_VPFUNSUPPORTED
Specified message Validity Period Format isn't supported

RIL_E_VPUNSUPPORTED
Specified message Validity Period isn't supported

RIL_E_SIMMSGSTORAGEFULL
Message storage on the SIM is full

RIL_E_NOSIMMSGSTORAGE
SIM isn't capable of storing messages

RIL_E_SIMTOOLKITBUSY
SIM Application Toolkit is busy

RIL_E_SIMDOWNLOADERROR
SIM data download error

RIL_E_MSGSVCRESERVED
Messaging service is reserved

RIL_E_INVALIDMSGPARAM
One of the message parameters is invalid

RIL_E_UNKNOWNSCADDRESS
Unknown message Service Center address was specified

RIL_E_UNASSIGNEDNUMBER
Specified message destination address is a currently unassigned phone number

RIL_E_MSGBARREDBYOPERATOR
Message sending was barred by an operator

RIL_E_MSGCALLBARRED
Message sending was prevented by outgoing calls barring

RIL_E_MSGXFERREJECTED
Sent message has been rejected by the receiving equipment

RIL_E_DESTINATIONOUTOFSVC
Message could not be delivered because destination equipment is out of service

RIL_E_UNIDENTIFIEDSUBCRIBER
Sender's mobile ID isn't registered

RIL_E_SVCUNSUPPORTED
Requested messaging service isn't supported

RIL_E_UNKNOWNSUBSCRIBER
Sender isn't recognized by the network

RIL_E_NETWKOUTOFORDER
Long-term network failure

RIL_E_NETWKTEMPFAILURE
Short-term network failure

RIL_E_CONGESTION
Operation failed because of the high network traffic

RIL_E_RESOURCESUNAVAILABLE
Unspecified resources weren't available

RIL_E_SVCNOTSUBSCRIBED
Sender isn't subscribed for the requested messaging service

RIL_E_SVCNOTIMPLEMENTED
Requested messaging service isn't implemented on the network

RIL_E_INVALIDMSGREFERENCE
Imvalid message reference value was used

RIL_E_INVALIDMSG
Message was determined to be invalid for unspecified reasons

RIL_E_INVALIDMANDATORYINFO
Mandatory message information is invalid or missing

RIL_E_MSGTYPEUNSUPPORTED
The message type is unsupported

RIL_E_ICOMPATIBLEMSG
Sent message isn't compatible with the network

RIL_E_INFOELEMENTUNSUPPORTED
An information element specified in the message isn't supported

RIL_E_PROTOCOLERROR
Unspefied protocol error

RIL_E_NETWORKERROR
Unspecified network error

RIL_E_MESSAGINGERROR
Unspecified messaging error

RIL_E_NOTREADY
RIL isn't yet ready to perform the requested operation

RIL_E_TIMEDOUT
Operation timed out

RIL_E_CANCELLED
Operation was cancelled

RIL_E_NONOTIFYCALLBACK
Requested operation requires an RIL notification callback, which wasn't provided

RIL_E_OPFMTUNAVAILABLE
Operator format isn't available

RIL_E_NORESPONSETODIAL
Dial operation hasn't received a response for a long time

RIL_E_SECURITYFAILURE
Security failure

RIL_E_RADIOFAILEDINIT
Radio failed to initialize correctly

RIL_E_DRIVERINITFAILED
There was a problem initializing the radio driver

RIL_E_RADIONOTPRESENT
The Radio is not present

Comments None

Error Class Constants

Description Each RIL error falls into a general error class bucket

Values

0x00
Misc error

0x01
Unspecified phone failure

0x02
Problem with the SIM

0x03
Can't access the network

0x04
Error in the network

0x05
Error in the mobile

0x06
Unsupported by the network

0x07
Unsupported by the mobile

0x08
An invalid parameter was supplied

0x09
Error relating to storage

0x0A
Error relates to the SMSC

0x0B
Error in the destination mobile

0x0C
Unsupported by destination mobile

0x0D
The Radio Module is Off or a radio module may not be present

Comments

In RIL, the low order 16 bits are divided into an 8-bit error class and an 8-bit error value. Use the RILERRORCLASS macro to obtain the error class from a RIL HRESULT.

Error Correction Constants

Description

Error correction modes

Values

RIL_ECMODE_UNKNOWN
TBD

RIL_ECMODE_DIRECT
TBD

RIL_ECMODE_BUFFERED
TBD

RIL_ECMODE_NODETECT
TBD

RIL_ECMODE_DETECT
TBD

RIL_ECMODE_ALTERNATIVE
TBD

RIL_ECMODE_OPTIONAL_USEBUFFERED
TBD

RIL_ECMODE_OPTIONAL_USEDIRECT
TBD

RIL_ECMODE_REQUIRED
TBD

RIL_ECMODE_REQUIRED_LAPMONLY
TBD

RIL_ECMODE_REQUIRED_ALTERNATIVEONLY
TBD

Comments None

Forwarding Reason Constants

Description Forwarding reasons

Values

RIL_FWDREASON_UNCONDITIONAL
Always forward

RIL_FWDREASON_MOBILEBUSY
Forward when device busy

RIL_FWDREASON_NOREPLY
Forward when no answer

RIL_FWDREASON_UNREACHABLE
Forward device out of service

RIL_FWDREASON_ALLFORWARDING
TBD

RIL_FWDREASON_ALLCONDITIONAL
TBD

Comments None

GPRS Class Constants

Description GPRS Class

Values

RIL_GPRSCLASS_UNKNOWN
GPRS class unknown

RIL_GPRSCLASS_GSMANDGPRS
Simultaneous voice and GPRS data

RIL_GPRSCLASS_GSMORGPRS
Simultaneous voice and GPRS traffic channel, one or other data

RIL_GPRSCLASS_GSMORGPRS_EXCLUSIVE
Either all voice or all GPRS, both traffic channels unmonitored

RIL_GPRSCLASS_GPRSONLY
Only GPRS

RIL_GPRSCLASS_GSMONLY
Only circuit switched voice and data

Comments None

GPRS Data Comp Constants

Description GPRS Data Compression

Values
RIL_GPRSDATACOMP_OFF
compression off

RIL_GPRSDATACOMP_ON
compression off

Comments None

GPRS Delay Class Constants

Description GPRS Delay Class

Values
RIL_GPRSDELAYCLASS_PREDICTIVE1
see gsm 02.60

RIL_GPRSDELAYCLASS_PREDICTIVE2
see gsm 02.60

RIL_GPRSDELAYCLASS_PREDICTIVE3
see gsm 02.60

RIL_GPRSDELAYCLASS_BESTEFFORT
see gsm 02.60

Comments None

GPRS Header Comp Constants

Description GPRS Header Compression

Values
RIL_GPRSHEADERCOMP_OFF
compression off

RIL_GPRSHEADERCOMP_ON
compression off

Comments None

GPRS Mean Throughput Class Constants

Description GPRS Mean Throughput Class

Values

RIL_MEANTHRUCLASS_100
0.22 bits/second

RIL_MEANTHRUCLASS_200
0.44 bits/second

RIL_MEANTHRUCLASS_500
1.11 bits/second

RIL_MEANTHRUCLASS_1000
2.2 bits/second

RIL_MEANTHRUCLASS_2000
4.4 bits/second

RIL_MEANTHRUCLASS_5000
11.1 bits/second

RIL_MEANTHRUCLASS_10000
22 bits/second

RIL_MEANTHRUCLASS_20000
44 bits/second

RIL_MEANTHRUCLASS_50000
111 bits/second

RIL_MEANTHRUCLASS_100000
220 bits/second

RIL_MEANTHRUCLASS_200000
440 bits/second

RIL_MEANTHRUCLASS_500000
1,110 bits/second

RIL_MEANTHRUCLASS_1000000
2,200 bits/second

RIL_MEANTHRUCLASS_2000000
4,400 bits/second

RIL_MEANTHRUCLASS_5000000
11,100 bits/second

RIL_MEANTHRUCLASS_10000000
22,000 bits/second

RIL_MEANTHRUCLASS_20000000
44,000 bits/second

RIL_MEANTHRUCLASS_50000000
111,000 bits/second

RIL_MEANTHRUCLASS_DONTCARE
best effort

Comments Constants represent octets per hour

GPRS Peak Throughput Class Constants

Description GPRS Peak Throughput Class

Values

RIL_PEAKTHRUCLASS_8000
bits per second

RIL_PEAKTHRUCLASS_16000
bits per second

RIL_PEAKTHRUCLASS_32000
bits per second

RIL_PEAKTHRUCLASS_64000
bits per second

RIL_PEAKTHRUCLASS_128000
bits per second

RIL_PEAKTHRUCLASS_256000
bits per second

RIL_PEAKTHRUCLASS_512000
bits per second

RIL_PEAKTHRUCLASS_1024000
bits per second

RIL_PEAKTHRUCLASS_2048000
bits per second

Comments Constants represent bits per second

GPRS Precedence Class Constants

Description GPRS Precedence Class

Values

RIL_GPRSPRECEDENCECLASS_HIGH
high priority

RIL_GPRSPRECEDENCECLASS_NORMAL
normal priority

RIL_GPRSPRECEDENCECLASS_LOW
low priority

Comments None

GPRS Protocol Constants

Description GPRS L2 Protocols

Values

RIL_GPRSL2PROTOCOL_UNKNOWN
$3

RIL_GPRSL2PROTOCOL_NULL
none, for PDP type OSP:IHOSS

RIL_GPRSL2PROTOCOL_PPP
Point-to-point protocol for a PDP such as IP

RIL_GPRSL2PROTOCOL_PAD
character stream for X.25 character (triple X PAD) mode

RIL_GPRSL2PROTOCOL_X25
X.25 L2 (LAPB) for X.25 packet mode

Comments

None
See GSM 07.07 10.1.6 for definitions

GPRS Protocol Constants

Description

GPRS Packet Protocols

Values

RIL_GPRSPROTOCOL_UNKNOWN
Unknown

RIL_GPRSPROTOCOL_X25
ITU-T/CCITT X.25 Layer 4

RIL_GPRSPROTOCOL_IP
Internet Protocol (IETF STD 5)

RIL_GPRSPROTOCOL_IHOSP
Internet Hosted Octet Stream Protocol

RIL_GPRSPROTOCOL_PPP
Point to Point Protocol

Comments

None

GPRS Reliability Class Constants

Description

GPRS Reliability Class

Values

RIL_GPRSRELIABILITYCLASS_1
see gsm 03.60

RIL_GPRSRELIABILITYCLASS_2
see gsm 03.60

RIL_GPRSRELIABILITYCLASS_3
see gsm 03.60

RIL_GPRSRELIABILITYCLASS_4
see gsm 03.60

RIL_GPRSRELIABILITYCLASS_5
see gsm 03.60

Comments None

GPRS SMS Constants

Description Mobile Originated SMS Service Constants

Values

RIL_MOSMSSERVICE_CIRCUIT
circuit switched

RIL_MOSMSSERVICE_GPRS
GPRS

RIL_MOSMSSERVICE_CIRCUITPREFERRED
use both, circuit switched preferred

RIL_MOSMSSERVICE_GPRSPREFERRED
use both, GPRS preferred

Comments None

HSCSD Air Interface Constants

Description HSCSD air interface user rates

Values

RIL_HSCSDAIURATE_UNKNOWN
Air interface rate

RIL_HSCSDAIURATE_9600
9600 bits per second

RIL_HSCSDAIURATE_14400
14400 bits per second

RIL_HSCSDAIURATE_19200
19200 bits per second

RIL_HSCSDAIURATE_28800
28800 bits per second

RIL_HSCSDAIURATE_38400
38400 bits per second

RIL_HSCSDAIURATE_43200
43200 bits per second

RIL_HSCSDAIURATE_57600
57600 bits per second

RIL_HSCSDAIURATE_DEFAULT
A special value that indicates the radio stack should calculate the appropriate number of receive timeslots based on other paramaters

Comments None

HSCSD Special Constants

Description Special HSCSD receive timeslots value

Values

RIL_HSCSDTIMESLOTS_DEFAULT
Indicates that the radio stack should calculate apropriate number of timeslots

RIL_HSCSDTIMESLOTSLIMIT_NONE
Indicates that number of receive numeslots will not be altered during the next non-transparent HSCSD call

Comments None

HSCSD Traffic Channel Constants

Description HSCSD traffic channel codings

Values

RIL_HSCSDCODING_UNKNOWN
Unknown channel coding

RIL_HSCSDCODING_4800_FULLRATE
4800 bits per second

RIL_HSCSDCODING_9600_FULLRATE
9600 bits per second

RIL_HSCSDCODING_14400_FULLRATE
14400 bits per second

RIL_HSCSDCODING_ALL
All channel codings valid

Comments None

Information Class Constants

Description Telephony information classes

Values

RIL_INFOCLASS_NONE
None

RIL_INFOCLASS_VOICE
Voice

RIL_INFOCLASS_DATA
Data

RIL_INFOCLASS_FAX
Fax

RIL_INFOCLASS_SMS
SMS

RIL_INFOCLASS_DATACIRCUITSYNC
Data Circuit synchronous

RIL_INFOCLASS_DATACIRCUITASYNC
Data Circuit asynchronous

RIL_INFOCLASS_PACKETACCESS
Dedicated Packet Access

RIL_INFOCLASS_PADACCESS
Dedicated PAD Access

RIL_INFOCLASS_ALL
All information classes

Comments None

ITC Constants

Description Information trasnfer capability types

Values

RIL_ITC_31KHZ
3.1 kHz

RIL_ITC_UDI
Unrestricted Digital Information

Comments None

Line Registration Constants

Description Line registration status values

Values

RIL_REGSTAT_UNKNOWN
Registration unknown

RIL_REGSTAT_UNREGISTERED
Unregistered

RIL_REGSTAT_HOME
Registered on home network

RIL_REGSTAT_ATTEMPTING
Attempting to register

RIL_REGSTAT_DENIED
Registration denied

RIL_REGSTAT_ROAMING
Registered on roaming network

Comments None

Line Status Constants

Description Line status values

Values

RIL_LINESTAT_UNKNOWN
Unknown

RIL_LINESTAT_READY
Line is ready

RIL_LINESTAT_UNAVAILABLE
Line is unavailable

RIL_LINESTAT_RINGING
Incoming call on the line

RIL_LINESTAT_CALLINPROGRESS
Call in progress

RIL_LINESTAT_ASLEEP
Line is asleep

Comments None

Lock Facility Constants

Description Facilities for phone locking

Values

RIL_LOCKFACILITY_CNTRL
Lock control curface

RIL_LOCKFACILITY_PH_SIM
Lock phone to SIM card

RIL_LOCKFACILITY_PH_FSIM
Lock phone to first SIM card

RIL_LOCKFACILITY_SIM
Lock SIM card

RIL_LOCKFACILITY_SIM_PIN2
SIM PIN2 (only for RIL_ChangeLockingPassword())

RIL_LOCKFACILITY_SIM_FIXEDIALING
SIM fixed dialing memory

RIL_LOCKFACILITY_NETWORKPERS
Network personalization

RIL_LOCKFACILITY_NETWORKSUBPERS
Network subset personalization

RIL_LOCKFACILITY_SERVICEPROVPERS
Service provider personalization

RIL_LOCKFACILITY_CORPPERS
Corporate personalization

Comments None

Lock Status Constants

Description Locking status values

Values

RIL_LOCKINGSTATUS_DISABLED
Disable

RIL_LOCKINGSTATUS_ENABLED
Enabled

Comments None

Maximum lengths Constants

Description Maximum lengths for string parameters

Values

MAXLENGTH_ADDRESS
256

MAXLENGTH_SUBADDR
256

MAXLENGTH_DESCRIPTION
256

MAXLENGTH_OPERATOR
32

MAXLENGTH_OPERATOR_LONG
32

MAXLENGTH_OPERATOR_SHORT
16

MAXLENGTH_OPERATOR_NUMERIC
16

MAXLENGTH_SERVCTR
256

MAXLENGTH_PASSWORD
256

MAXLENGTH_ERRSHORT
256

MAXLENGTH_ERRLONG
256

MAXLENGTH_EQUIPINFO
128

MAXLENGTH_PHONEBOOKADDR
256

MAXLENGTH_PHONEBOOKTEXT
256

MAXLENGTH_CURRENCY
256

MAXLENGTH_AREAID
256

MAXLENGTH_CELLID
256

MAXLENGTH_HDR
256

MAXLENGTH_MSG
256

MAXLENGTH_CMD
256

MAXLENGTH_MSGIDS
256

MAXLENGTH_USERID
256

MAXLENGTH_DTMF
256

MAXLENGTH_GPRSADDRESS
256

MAXLENGTH_GPRSACCESSPOINTNAME
256

Comments None

Message Class Constants

Description Message classes

Values

RIL_MSGCLASS_NONE
TBD

RIL_MSGCLASS_INCOMING
TBD

RIL_MSGCLASS_OUTGOING
TBD

RIL_MSGCLASS_BROADCAST
TBD

RIL_MSGCLASS_ALL
TBD

Comments None

Message Command Constants

Description Message command types

Values

RIL_MSGCMDTYPE_STATUSREQ
TBD

RIL_MSGCMDTYPE_CANCELSTATUSREQ
TBD

RIL_MSGCMDTYPE_DELETEMESSAGE
TBD

RIL_MSGCMDTYPE_ENABLESTATUSREQ
TBD

Comments None

Message DCS Constants

Description Message data coding scheme types

Values

RIL_DCSTYPE_GENERAL
TBD

RIL_DCSTYPE_MSGWAIT
TBD

RIL_DCSTYPE_MSGCLASS
TBD

RIL_DCSTYPE_LANGUAGE
TBD

Comments None

Message DCS Alphabets Constants

Description Message data coding scheme alphabets

Values

RIL_DCSALPHABET_DEFAULT
TBD

RIL_DCSALPHABET_8BIT
TBD

RIL_DCSALPHABET_UCS2
TBD

Comments None

Message DCS Broadcast Constants

Description Message broadcast data coding scheme languages

Values

RIL_DCSLANG_NONE
TBD

RIL_DCSLANG_UNKNOWN
TBD

RIL_DCSLANG_GERMAN
TBD

RIL_DCSLANG_ENGLISH
TBD

RIL_DCSLANG_ITALIAN
TBD

RIL_DCSLANG_FRENCH
TBD

RIL_DCSLANG_SPANISH
TBD

RIL_DCSLANG_DUTCH
TBD

RIL_DCSLANG_SWEDISH
TBD

RIL_DCSLANG_DANISH
TBD

RIL_DCSLANG_PORTUGUESE
TBD

RIL_DCSLANG_FINNISH
TBD

RIL_DCSLANG_NORWEGIAN
TBD

RIL_DCSLANG_GREEK
TBD

RIL_DCSLANG_TURKISH
TBD

RIL_DCSLANG_HUNGARIAN
TBD

RIL_DCSLANG_POLISH
TBD

RIL_DCSLANG_CZECH
TBD

RIL_DCSLANG_ALL
TBD

Comments None

Message DCS Classes Constants

Description Message data coding scheme message classes

Values

RIL_DCSMSGCLASS_0
TBD

RIL_DCSMSGCLASS_1
TBD

RIL_DCSMSGCLASS_2
TBD

RIL_DCSMSGCLASS_3
TBD

Comments None

Message DCS Flags Constants

Description Message data coding scheme flags

Values

RIL_DCSFLAG_NONE
TBD

RIL_DCSFLAG_COMPRESSED
TBD

RIL_DCSFLAG_INDICATIONACTIVE
TBD

RIL_DCSFLAG_DISCARD
Only for RIL_DCSTYPE_MSGWAIT

RIL_DCSFLAG_ALL
TBD

Comments None

Message DCS Indication Constants

Description Message data coding scheme indication types

Values

RIL_DCSINDICATION_VOICEMAIL
Voicemail indication

RIL_DCSINDICATION_FAX
Fax indication

RIL_DCSINDICATION_EMAIL
E-Mail indication

RIL_DCSINDICATION_OTHER
Other indication

Comments None

Message Delivery Constants

Description Message delivery status values

Values

RIL_MSGDLVSTATUS_RECEIVEDBYSME
TBD

RIL_MSGDLVSTATUS_FORWARDEDTOSME
TBD

RIL_MSGDLVSTATUS_REPLACEDBYSC
TBD

RIL_MSGDLVSTATUS_CONGESTION_TRYING
TBD

RIL_MSGDLVSTATUS_SMEBUSY_TRYING
TBD

RIL_MSGDLVSTATUS_SMENOTRESPONDING_TRYING
TBD

RIL_MSGDLVSTATUS_SVCREJECTED_TRYING
TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL_TRYING
TBD

RIL_MSGDLVSTATUS_SMEERROR_TRYING
TBD

RIL_MSGDLVSTATUS_CONGESTION
TBD

RIL_MSGDLVSTATUS_SMEBUSY
TBD

RIL_MSGDLVSTATUS_SMENOTRESPONDING
TBD

RIL_MSGDLVSTATUS_SVCREJECTED
TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL_TEMP
TBD

RIL_MSGDLVSTATUS_SMEERROR
TBD

RIL_MSGDLVSTATUS_REMOTEPROCERROR
TBD

RIL_MSGDLVSTATUS_INCOMPATIBLEDEST
TBD

RIL_MSGDLVSTATUS_CONNECTIONREJECTED
TBD

RIL_MSGDLVSTATUS_NOTOBTAINABLE
TBD

RIL_MSGDLVSTATUS_NOINTERNETWORKING
TBD

RIL_MSGDLVSTATUS_VPEXPIRED
TBD

RIL_MSGDLVSTATUS_DELETEDBYORIGSME
TBD

RIL_MSGDLVSTATUS_DELETEDBYSC
TBD

RIL_MSGDLVSTATUS_NOLONGEREXISTS
TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL
TBD

RIL_MSGDLVSTATUS_RESERVED_COMPLETED
TBD

RIL_MSGDLVSTATUS_RESERVED_TRYING
TBD

RIL_MSGDLVSTATUS_RESERVED_ERROR
TBD

RIL_MSGDLVSTATUS_RESERVED_TMPERROR
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_COMPLETED
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_TRYING
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_ERROR
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_TMPERROR
TBD

Comments None

Message Flag Constants

Description Message flags

Values

RIL_MSGFLAG_NONE
None

RIL_MSGFLAG_MORETOSEND
More messages to send (valid for RIL_MSGTYPE_IN_DELIVER and RIL_MSGTYPE_IN_STATUS)

RIL_MSGFLAG_REPLYPATH
Message contains a reply path (valid for RIL_MSGTYPE_IN_DELIVER and RIL_MSGTYPE_OUT_SUBMIT)

RIL_MSGFLAG_HEADER
TBD (valid for RIL_MSGTYPE_IN_DELIVER, RIL_MSGTYPE_OUT_SUBMIT, RIL_MSGTYPE_IN_STATUS, and RIL_MSGTYPE_OUT_COMMAND)

RIL_MSGFLAG_REJECTDUPS
TBD (valid for RIL_MSGTYPE_OUT_SUBMIT only)

RIL_MSGFLAG_STATUSREPORTRETURNED
(valid for RIL_MSGTYPE_IN_DELIVER only)

RIL_MSGFLAG_STATUSREPORTREQUESTED
(valid for RIL_MSGTYPE_OUT_SUBMIT and RIL_MSGTYPE_OUT_COMMAND)

RIL_MSGFLAG_CAUSEDBYCOMMAND
(valid for RIL_MSGTYPE_IN_STATUS only)

RIL_MSGFLAG_ALL
All flags are on

Comments None

Message Geographic Constants

Description Message geographic scopes

Values

RIL_GEOSCOPE_CELL_IMMEDIATE
TBD

RIL_GEOSCOPE_CELL
TBD

RIL_GEOSCOPE_PLMN
TBD

RIL_GEOSCOPE_LOCATIONAREA
TBD

Comments None

Message Protocol Constants

Description Message protocol IDs

Values

RIL_MSGPROTOCOL_UNKNOWN
TBD

RIL_MSGPROTOCOL_SMETOSME
TBD

RIL_MSGPROTOCOL_IMPLICIT
TBD

RIL_MSGPROTOCOL_TELEX
TBD

RIL_MSGPROTOCOL_TELEFAX_GROUP3
TBD

RIL_MSGPROTOCOL_TELEFAX_GROUP4
TBD

RIL_MSGPROTOCOL_VOICEPHONE
TBD

RIL_MSGPROTOCOL_ERMES
TBD

RIL_MSGPROTOCOL_PAGING
TBD

RIL_MSGPROTOCOL_VIDEOTEX
TBD

RIL_MSGPROTOCOL_TELETEX
TBD

RIL_MSGPROTOCOL_TELETEX_PSPDN
TBD

RIL_MSGPROTOCOL_TELETEX_CSPDN
TBD

RIL_MSGPROTOCOL_TELETEX_PSTN
TBD

RIL_MSGPROTOCOL_TELETEX_ISDN
TBD

RIL_MSGPROTOCOL_UCI
TBD

RIL_MSGPROTOCOL_MSGHANDLING
TBD

RIL_MSGPROTOCOL_X400
TBD

RIL_MSGPROTOCOL_EMAIL
TBD

RIL_MSGPROTOCOL_GSMSTATION
TBD

RIL_MSGPROTOCOL_SM_TYPE0
TBD

RIL_MSGPROTOCOL_RSM_TYPE1
TBD

RIL_MSGPROTOCOL_RSM_TYPE2
TBD

RIL_MSGPROTOCOL_RSM_TYPE3
TBD

RIL_MSGPROTOCOL_RSM_TYPE4
TBD

RIL_MSGPROTOCOL_RSM_TYPE5
TBD

RIL_MSGPROTOCOL_RSM_TYPE6
TBD

RIL_MSGPROTOCOL_RSM_TYPE7
TBD

RIL_MSGPROTOCOL_RETURNCALL
TBD

RIL_MSGPROTOCOL_ME_DOWNLOAD
TBD

RIL_MSGPROTOCOL_DEPERSONALIZATION
TBD

RIL_MSGPROTOCOL_SIM_DOWNLOAD
TBD

Comments None

Message Send Constants

Description Send message options

Values

RIL_SENDOPT_NONE
TBD

RIL_SENDOPT_PERSISTLINK
TBD

Comments None

Message Service Constants

Description Messaging service types

Values

RIL_MSGSVCTYPE_UNKNOWN
Unknown

RIL_MSGSVCTYPE_PHASE2
GSM 07.05 Phase 2 ver. 4.7.0 messaging service

RIL_MSGSVCTYPE_PHASE2PLUS
GSM 07.05 Pahse 2+ messaging service

Comments None

Message Status Constants

Description Message status values

Values

RIL_MSGSTATUS_UNKNOWN
TBD

RIL_MSGSTATUS_RECUNREAD
TBD

RIL_MSGSTATUS_RECREAD
TBD

RIL_MSGSTATUS_STOUNSENT
TBD

RIL_MSGSTATUS_STOSENT
TBD

Comments None

Message Storage Constants

Description Message storage locations

Values

RIL_MSGLOC_UNKNOWN
Unknown

RIL_MSGLOC_BROADCAST
Broadcast message storage location

RIL_MSGLOC_SIM
SIM storage location

RIL_MSGLOC_STATUSREPORT
Status report storage location

Comments None

Message Type Constants

Description Message types

Values

RIL_MSGTYPE_IN_DELIVER
Incoming message

RIL_MSGTYPE_IN_STATUS
Incoming status message

RIL_MSGTYPE_OUT_SUBMIT
Outgoing message

RIL_MSGTYPE_OUT_COMMAND
Outgoing command message

RIL_MSGTYPE_BC_GENERAL
Broadcast message (incoming only)

Comments None

Message Validity Constants

Description Message validity period formats

Values

RIL_MSGVP_NONE
TBD

RIL_MSGVP_RELATIVE
TBD

RIL_MSGVP_ENHANCED
TBD

RIL_MSGVP_ABSOLUTE
TBD

Comments None

Notification Call Control Constants

Description Call control notifications (RIL_NCLASS_CALLCTRL)

Values

RIL_NOTIFY_RING
Incoming call; lpData points to RILRINGINFO

RIL_NOTIFY_CONNECT
Data/voice connection has been established; lpData points to RILCONNECTINFO

RIL_NOTIFY_DISCONNECT
Data/voice connection has been terminated; lpData points to RIL_DISCINIT_* constant

RIL_NOTIFY_DATASVCNEGOTIATED
Data connection service has been negotiated; lpData points to RILSERVICEINFO

RIL_NOTIFY_CALLSTATECHANGED
RIL has performed an operation that may have changed state of existing calls; lpData is NULL

RIL_NOTIFY_EMERGENCYMODEENTERED
RIL has enetered emergency mode; lpData is NULL

RIL_NOTIFY_EMERGENCYMODEEXITED
RIL has exited emergency mode; lpData is NULL

RIL_NOTIFY_EMERGENCYHANGUP
Existsing calls (if any) were hung up in RIL emergency mode; lpData is NULL

RIL_NOTIFY_HSCSDPARAMSNEGOTIATED
HSCSD parameters for a call has been negotiated; lpData points to RILCALLHSCSDINFO

RIL_NOTIFY_DIAL
Outgoing call; lpData points to RILDIALINFO

Comments None

Notification Class Constants

Description Values Notification classes

RIL_NCLASS_FUNCRESULT
API call results

RIL_NCLASS_CALLCTRL
Call control notifications

RIL_NCLASS_MESSAGE
Messaging notifications

RIL_NCLASS_NETWORK
Network-related notifications

RIL_NCLASS_SUPSERVICE
Supplementary service notifications

RIL_NCLASS_PHONEBOOK
Phonebook notifications

RIL_NCLASS_SIMTOOLKIT
SIM Toolkit notifications

RIL_NCLASS_MISC
Miscellaneous notifications

RIL_NCLASS_RADIOSTATE
Notifications Pertaining to changes in Radio State

RIL_NCLASS_ALL
All notification classes

Comments None

Notification Messaging Constants

Description Values Messaging notifications (RIL_MCLASS_MESSAGE)

RIL_NOTIFY_MESSAGE
Incoming message; lpData points to RILMESSAGE

RIL_NOTIFY_BCMESSAGE
Incoming broadcast message; lpData points to RILMESSAGE

RIL_NOTIFY_STATUSMESSAGE
Incoming status-report message; lpData points to RILMESSAGE

RIL_NOTIFY_MSGSTORED
A message has been added to storage; lpData points to the storage index assigned to the new message

RIL_NOTIFY_MSGDELETED
A message has been deleted from storage; lpData points to the storage index occupied by the deleted message

RIL_NOTIFY_MSGSTORAGECHANGED
One of the message storage locations has been changed; lpData points to RILMSGSTORAGEINFO

RIL_NOTIFY_MESSAGE_IN_SIM
Incoming message stored to SIM; lpData points to the storage RILMESSAGE_IN_SIM

RIL_NOTIFY_BCMESSAGE_IN_SIM
Incoming broadcast message stored to SIM; lpData points to RILMESSAGE_IN_SIM

RIL_NOTIFY_STATUSMESSAGE_IN_SIM
Incoming status-report message stored to SIM; lpData points to RILMESSAGE_IN_SIM

Comments None

Notification Misc Constants

Description Miscellaneous notifications (RIL_NCLASS_MISC)

Values

RIL_NOTIFY_SIMNOTACCESSIBLE
SIM card has been removed or has failed to respond; lpData is NULL

RIL_NOTIFY_DTMFSIGNAL
A DTMF signal has been detected; lpData points to char

RIL_NOTIFY_GPRSCLASS_NETWORKCHANGED
Network has indicated a change in GPRS class lpData points to a DWORD containing the new RIL_GPRSCLASS_* value

RIL_NOTIFY_GPRSCLASS_RADIOCHANGED
The radio has indicated a change in GPRS class lpData points to a DWORD containing the new RIL_GPRSCLASS_* value

Comments None

Notification Network Constants

Description Network-related notifications (RIL_NCLASS_NETWORK)

Values

RIL_NOTIFY_REGSTATUSCHANGED
Network registration status has changed; lpData points to the new status (RIL_REGSTAT_* constant)

RIL_NOTIFY_CALLMETER
Call meter has changed; lpData points to a DWORD containing new current call meter value

RIL_NOTIFY_CALLMETERMAXREACHED
Call meter maximum has been reached; lpData is NULL

RIL_NOTIFY_GPRSREGSTATUSCHANGED
Network registration status has changed; lpData points to the new status (RIL_REGSTAT_* constant)

Comments None

Notification Phonebook Constants

Description Values Phonebook notifications (RIL_NCLASS_PHONEBOOK)

RIL_NOTIFY_PHONEBOOKENTRYSTORED
A phonebook entry has been added to storage; lpData points to the storage index assigned to the new entry (ifdwIndex is RIL_PBINDEX_FIRSTAVAILABLE, the new entry was stored in the first available location)

RIL_NOTIFY_PHONEBOOKENTRYDELETED
A phonebook entry has been deleted from storage; lpData points to the storage index occupied by the deleted entry

RIL_NOTIFY_PHONEBOOKSTORAGECHANGED
Phonebook storage location has been changed; lpData points to RIL_PBLOC_* constant

Comments None

Notification Radio State Change Constants

Description Values Radio State Change notifications (RIL_NCLASS_RADIOSTATE)

RIL_NOTIFY_RADIOEQUIPMENTSTATECHANGED
Carries a STRUCT (RILEQUIPMENTSTATE) stating The Radio equiptmentstate has changed, also notifies a driver defined Radio ON or OFF state

RIL_NOTIFY_RADIOPRESENCECHANGED
Carries a dword (RIL_RADIOPRESENCE_*) stating that a Radio Module/Driver has been changed (removed, inserted, etc)

Comments None

Notification Supplementary Service Constants

Description Values Supplementary service notifications (RIL_NCLASS_SUPSERVICE)

RIL_NOTIFY_CALLERID
Incoming call CallerID information; lpData points to RILREMOTEPARTYINFO

RIL_NOTIFY_DIALEDID
Initiated call DialedID information; lpData points to RILREMOTEPARTYINFO

RIL_NOTIFY_CALLWAITING
Call Waiting information; lpData points to RILCALLWAITINGINFO

RIL_NOTIFY_SUPSERVICEDATA
Ustructured supplementary service data; lpData points to RILSUPSERVICEDATA

Comments None

Notification Toolkit Constants

Description SIM Toolkit notifications (RIL_NCLASS_SIMTOOLKIT)

Values

RIL_NOTIFY_SIMTOOLKITCMD
A SIM Toolkit command was not handled by the radio; lpData points to array of bytes containing the command

RIL_NOTIFY_SIMTOOLKITCALLSETUP
SIM Toolkit is trying to set up a call and call conditions were successfully checked by the radio; lpData points to a DWORD containing the redial timeout for the call (in milliseconds)

RIL_NOTIFY_SIMTOOLKITEVENT
A SIM Toolkit command was handled by the radio or the radio sent a SIm Toolkit command response to the SIM; lpData points to array of bytes containing the command or response sent

RIL_NOTIFY_SIMTOOLKITSESSIONEND
A SIM Toolkit command session is ending

Comments None

Numbering Plan Constants

Description Different numbering shcemes

Values

RIL_NUMPLAN_UNKNOWN
Unknown numbering plan

RIL_NUMPLAN_TELEPHONE
ISDN/telephone numbering plan (E.164/E.163)

RIL_NUMPLAN_DATA
Data numbering plan (X.121)

RIL_NUMPLAN_TELEX
Telex numbering plan

RIL_NUMPLAN_NATIONAL
National numbering plan

RIL_NUMPLAN_PRIVATE
Private numbering plan

RIL_NUMPLAN_ERMES
ERMES numbering plan (ETSI DE/PS 3 01-3)

Comments Used for *RIL_ADDRTYPE_UNKNOWN*, *RIL_ADDRTYPE_INTERNATIONAL*, and *RIL_ADDRTYPE_NATIONAL*

Operator Name Constants

Description Operator name formats

Values

RIL_OPFORMAT_LONG
Long alphanumeric name

RIL_OPFORMAT_SHORT
Short alphanumeric name

RIL_OPFORMAT_NUM
Numeric name

Comments None

Operator Selection Constants

Description Operator selection modes

Values

RIL_OPSELMODE_AUTOMATIC
Automatic operator selection

RIL_OPSELMODE_MANUAL
Manual operator selection

RIL_OPSELMODE_MANUALAUTOMATIC
Manual/automatic operator selection (if manual selection fails, automatic selection mode is entered)

Comments None

Operator Special Constants

Description Special preferred operator index value

Values

RIL_PREFOPINDEX_FIRSTAVAILABLE
Used to specify that a preferred operator is to be stored at the first available index

Comments None

Operator Status Constants

Description Operator status values

Values

RIL_OPSTATUS_UNKNOWN
Unknown status

RIL_OPSTATUS_AVAILABLE
Operator is available

RIL_OPSTATUS_CURRENT
Operator is current

RIL_OPSTATUS_FORBIDDEN
Operator is forbidden

Comments None

Phone Locked Constants

Description Phone locked states

Values

RIL_LOCKEDSTATE_UNKNOWN
Locking state unknown

RIL_LOCKEDSTATE_READY
ME not locked

RIL_LOCKEDSTATE_SIM_PIN
ME awaiting PIN

RIL_LOCKEDSTATE_SIM_PUK
ME awaiting PUK

RIL_LOCKEDSTATE_PH_SIM_PIN
ME awaiting phone-to-sim password

RIL_LOCKEDSTATE_PH_FSIM_PIN
ME awaiting phone-to-first-sim password

RIL_LOCKEDSTATE_PH_FSIM_PUK
ME awaiting phone-to-first-sim PUK

RIL_LOCKEDSTATE_SIM_PIN2
ME awaiting PIN2/CHV2

RIL_LOCKEDSTATE_SIM_PUK2
ME awaiting PUK2

RIL_LOCKEDSTATE_PH_NET_PIN
ME awaiting network personilzation PIN

RIL_LOCKEDSTATE_PH_NET_PUK
ME awaiting network personilzation PUK

RIL_LOCKEDSTATE_PH_NETSUB_PIN
ME awaiting network subset personilzation PIN

RIL_LOCKEDSTATE_PH_NETSUB_PUK
ME awaiting network subset personilzation PUK

RIL_LOCKEDSTATE_PH_SP_PIN
ME awaiting service provider PIN

RIL_LOCKEDSTATE_PH_SP_PUK
ME awaiting service provider PUK

RIL_LOCKEDSTATE_PH_CORP_PIN
ME awaiting corporate personilzation PIN

RIL_LOCKEDSTATE_PH_CORP_PUK
ME awaiting corporate personilzation PUK

Comments None

Phonebook Storage Constants

Description Phonebook storage locations

Values

RIL_PBLOC_UNKNOWN
Unknown

RIL_PBLOC_SIMEMERGENCY
Emergency numbers

RIL_PBLOC_SIMFIXDIALING
Fixed dialing

RIL_PBLOC_SIMLASTDIALING
Recent calls list

RIL_PBLOC_OWNNUMBERS
TBD

RIL_PBLOC_SIMPHONEBOOK
SIM phonebook

Comments None

Radio Presence States Constants

Description Radio Presence States

Values

RIL_RADIOPRESENCE_NOTPRESENT
There is not radio module present in the device

RIL_RADIOPRESENCE_PRESENT
There is a radio module present that RIL can use

Comments These states are determined by whether the driver is loaded or not

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Remote Party Constants

Description Remote party information validity types

Values

RIL_REMOTEPARTYINFO_VALID
Information valid

RIL_REMOTEPARTYINFO_WITHHELD
Information withheld by other user

RIL_REMOTEPARTYINFO_UNAVAILABLE
Network unable to send info

Comments None

Signal Strength Constants

Description Special signal strength value

Values
RIL_SIGNALSTRENGTH_UNKNOWN
Unknown signal strength

Comments None

SIM Command Constants

Description SIM commands

Values
RIL_SIMCMD_READBINARY
Read a binary

RIL_SIMCMD_READRECORD
Read contents of a record

RIL_SIMCMD_GETRESPONSE
Required to get output data for some commands

RIL_SIMCMD_UPDATEBINARY
Update a transparent file

RIL_SIMCMD_UPDATERECORD
Update a linear fixed or cyclic file

RIL_SIMCMD_STATUS
Get status on a file

Comments None

SIM Record Constants

Description Different SIM file types

Values
RIL_SIMRECORDTYPE_UNKNOWN
An unknown file type

RIL_SIMRECORDTYPE_TRANSPARENT
A single veriable lengthed record

RIL_SIMRECORDTYPE_CYCLIC
A cyclic set of records, each of the same length

RIL_SIMRECORDTYPE_LINEAR
A linear set of records, each of the same length

RIL_SIMRECORDTYPE_MASTER
Every SIM has a single master record, effectively the head node

RIL_SIMRECORDTYPE_DEDICATED
Effectively a "directory" file which is a parent of other records

Comments None

SIM Toolkit Terminate Constants

Description SIM Toolkit session termination causes

Values

RIL_SIMTKITTERMCAUSE_USERSTOPPEDREDIAL
User stopped redial attempts

RIL_SIMTKITTERMCAUSE_ENDOFREDIAL
End of redial period

RIL_SIMTKITTERMCAUSE_USERENDEDSESSION
Session terminated by user

Comments None

Special Phonebook Constants

Description Special phonebook index value

Values

RIL_PBINDEX_FIRSTAVAILABLE
User first available entry

Comments None

Subaddress Type Constants

Description Supplementary service data status values

Values

RIL_SUPSVCDATASTATUS_NOINFOREQUIRED
TBD

RIL_SUPSVCDATASTATUS_FURTHERINFOREQUIRED
TBD

RIL_SUPSVCDATASTATUS_TERMINATED
TBD

RIL_SUPSVCDATASTATUS_OTHERCLIENTRESPONDED
TBD

RIL_SUPSVCDATASTATUS_UNSUPPORTED
TBD

RIL_SUPSVCDATASTATUS_TIMEOUT
TBD

RIL_SUPSVCDATASTATUS_ERROR
TBD

Comments None

Subaddress Type Constants

Description Different subaddress types

Values

RIL_SUBADDRTYPE_NSAP
NSAP subaddress (X.213/ISO 8348 AD2)

RIL_SUBADDRTYPE_USER
User defined subaddress

Comments None

Supplemental Activation Constants

Description Supplementary service status values

Values

RIL_SVCSTAT_UNKNOWN
Unknown status

RIL_SVCSTAT_DISABLED
Service is disabled

RIL_SVCSTAT_ENABLED
Service is enabled

RIL_SVCSTAT_DEFAULT
Default status

Comments None

Supplementary Service Provisioning Constants

Description Supplementary service provisioning values

Values

RIL_SVCPROV_UNKNOWN
Unknown provisioning

RIL_SVCPROV_NOTPROVISIONED
Service isn't provisioned

RIL_SVCPROV_PROVISIONED
Service is provisioned

RIL_SVCPROV_TEMPMODERESTRICTED
Service temporary mode is restricted

RIL_SVCPROV_TEMPMODEALLOWED
Service temporary mode is allowed

Comments None

Telephony Service Constants

Description Telephony service types

Values

RIL_SERVICE_UNKNOWN
Unknown service

RIL_SERVICE_MODEM_ASYNC
Asynchronous modem

RIL_SERVICE_MODEM_SYNC
Synchronous modem

RIL_SERVICE_PADACCESS_ASYNC
PAD Access (asynchronous)

RIL_SERVICE_PACKETACCESS_SYNC
Packet Access (synchronous)

RIL_SERVICE_VOICE
Voice

RIL_SERVICE_FAX
Fax

Comments None

Unavailable Constants

Description Detailed reason for support of toolkit functions

Values

RIL_SIMTKN_MEIMPLEMENTS
The ME must implement this notification

RIL_SIMTKN_RADIOIMPLEMENTS_NONOTIFICATION
The radio will implement and not give a notification to the ME

RIL_SIMTKN_RADIOIMPLEMENTS_NOTIFICATION
The radio will implement and give a notification to the ME that it was done

RIL_SIMTKN_RADIOIMPLEMENTS_REQUESTMEINPUT
The radio will implement, but requests information from the ME first

Comments Values that variables information variables in RILSIMTOOLKITNOTIFYCAPS can take on

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RIL_AddCallForwarding

HRESULT RIL_AddCallForwarding(HRIL *hRil*, **DWORD** *dwReason*, **const RILCALLFORWARDINGSETTINGS*** *lpSettings*, **DWORD** *dwAddressId*)
Adds a Call Forwarding rule

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwReason
forwarding reason to add Call Forwarding for (*RIL_FWDREASON_* constant)

lpSettings
settings for the new Call Forwarding rule

dwAddressId
address ID of line on which to change call forwarding settings

Comments Asynchronous. *lpData* is *NULL*.

RIL_AddPreferredOperator

HRESULT RIL_AddPreferredOperator(HRIL *hRil*, **DWORD** *dwIndex*, **const RILOPERATORNAMES*** *lpOperatorNames*)
Adds a specified operator to the list of preferred operators

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
storage index to use for the added operator

lpOperatorNames
operator name

Comments Asynchronous. *lpData* is *NULL*

RIL_Answer

HRESULT RIL_Answer(HRIL *hRil*)
Answers an incoming call

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* is *NULL*.

RIL_CancelSupServiceDataSession

HRESULT RIL_CancelSupServiceDataSession(HRIL *hRil*)
Cancels current supplementary service session

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments TBD

RIL_ChangeCallBarringPassword

HRESULT RIL_ChangeCallBarringPassword(HRIL *hRil*, **DWORD** *dwType*, **LPCSTR** *lpwszOldPassword*, **LPCSTR** *lpwszNewPassword*)
Changes password for the specified type of call barring

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwType
type of call barring to retrieve status for (*RIL_BARRTYPE_* constant)

lpwszOldPassword
current password (no longer than *MAXLENGTH_PASSWORD* chars)

lpwszNewPassword
new password (no longer than *MAXLENGTH_PASSWORD* chars)

Comments Asynchronous. *lpData* is *NULL*.

RIL_ChangeLockingPassword

HRESULT RIL_ChangeLockingPassword(HRIL *hRil*, **DWORD** *dwFacility*, **LPCSTR** *lpszOldPassword*, **LPCSTR** *lpszNewPassword*)
Changes locking password for the specified facility

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwFacility
facility to change locking password for (*RIL_LOCKFACILITY_* constant)

lpszOldPassword
current locking password (no longer than *MAXLENGTH_PASSWORD* chars)

lpszNewPassword
new locking password (no longer than *MAXLENGTH_PASSWOR* chars)

Comments Asynchronous. *lpData* is *NULL*.

RIL_ClearCCBSRegistration

HRESULT RIL_ClearCCBSRegistration(HRIL *hRil*, **DWORD** *dwCCBSIndex*)
Clears registration for a Completion of Call to Busy Subscriber index. Activation of CCBS is used by calling RIL_ManageCalls using the *RIL_CALLCMD_INVOKECCBS* flag.

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwCCBSIndex
indicates which entry to clear, may be *RIL_CCBS_ALL*

Comments Asynchronous. *lpData* is *NULL*.

RIL_Deinitialize

HRESULT RIL_Deinitialize(HRIL *hRil***)**
Deinitializes RIL

Parameters
hRil
handle to an RIL instance returned by **RIL_Initialize**

Comments Synchronous

RIL_DeleteGPRSContext

HRESULT RIL_DeleteGPRSContext(HRIL *hRil*, **DWORD** *dwContextID*)
Deletes a particular GPRS context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwContextID
identifies which context to delete

Comments Asynchronous. *lpData* is *NULL*.

RIL_DeleteMinimumQualityOfService

HRESULT RIL_DeleteMinimumQualityOfService(HRIL *hRil*, **DWORD** *dwContextID*)
Deletes the minimum quality of service profile for a context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwContextID
identifies which profile to delete

Comments Asynchronous. *lpData* is *NULL*.

RIL_DeleteMsg

HRESULT RIL_DeleteMsg(HRIL *hRil*, **DWORD** *dwIndex*)
Deletes a message from the current storage location

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index of the message to be deleted

Comments Asynchronous. *lpData* is *NULL*.

RIL_DeletePhonebookEntry

HRESULT RIL_DeletePhonebookEntry(HRIL *hRil*, **DWORD** *dwIndex*)
Deletes a phonebook entry from the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index of the entry to delete

Comments Asynchronous. *lpData* is *NULL*.

RIL_DeleteRequestedQualityOfService

HRESULT RIL_DeleteRequestedQualityOfService(HRIL *hRil*, **DWORD** *dwContextID*)
Deletes the requested quality of service profile for a context

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwContextID
identifies which profile to delete

Comments Asynchronous. *lpData* is *NULL*.

RIL_DevSpecific

HRESULT RIL_DevSpecific(HRIL *hRil*, **const BYTE*** *lpbParams*, **DWORD** *dwSize*)
Performs an implementation-specific operation

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbParams
parameters for the operation to be performed

dwSize
size of the data pointed to by *lpParams* in bytes

Comments Asynchronous. *lpData* points to an array of **BYTE**s.

RIL_Dial

HRESULT RIL_Dial(HRIL *hRil*, **LPCSTR** *lpszAddress*, **DWORD** *dwType*, **DWORD** *dwOptions*, **DWORD** *dwAddressId*)
Dials a specified address

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpszAddress
address to dial (no longer than *MAXLENGTH_ADDRESS* chars)

dwType
type of the call to establish (*RIL_CALLTYPE_* constant)

dwOptions
dialing options (any combination of *RIL_DIALOPT_* constants)

dwAddressId
address ID of the line on which to dial out

Comments Asynchronous. *lpData* is *NULL*.

RIL_DisableNotifications

HRESULT RIL_DisableNotifications(HRIL *hRil*, **DWORD** *dwNotificationClasses*)
Disables classes of notifications for this client

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwNotificationClasses
classes of notifications to disable

Comments Synchronous

RIL_EnableNotifications

HRESULT RIL_EnableNotifications(HRIL *hRil*, **DWORD** *dwNotificationClasses*)
Enables additional classes of notifications for this client

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwNotificationClasses
classes of notifications to enable

Comments Synchronous

RIL_EnterGPRSDataMode

HRESULT RIL_EnterGPRSDataMode(HRIL *hRil*, **const RILENTERGPRSDATAMODE*** *lpEnterGprsDataMode*)
Enters into GPRS data state

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpEnterGprsDataMode
points to a **RILENTERGPRSDATAMODE** structure

Comments Asynchronous. *lpData* if *NULL*.

RIL_FetchSimToolkitCmd

HRESULT RIL_FetchSimToolkitCmd(HRIL *hRil*)
Fetches a SIM Toolkit command from the SIM

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **BYTE**s containing a fetched command.

RIL_GetAudioDevices

HRESULT RIL_GetAudioDevices(HRIL *hRil*)
Retrieves currently used transmit and receive audio devices

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILAUDIODEVICEINFO** structure.

RIL_GetAudioGain

HRESULT RIL_GetAudioGain(HRIL *hRil*)
Retrieves audio gain information

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILGAININFO** structure.

RIL_GetAudioMuting

HRESULT RIL_GetAudioMuting(HRIL *hRil*)
Determines whether the input audio device is muted

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **BOOL**.

RIL_GetBearerServiceOptions

HRESULT RIL_GetBearerServiceOptions(HRIL *hRil***)**
Retrieves currently set data bearer service options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILBEARERSVCINFO** structure.

RIL_GetCallBarringStatus

HRESULT RIL_GetCallBarringStatus(HRIL *hRil*, **DWORD** *dwType*, **DWORD** *dwInfoClass*, **LPCSTR** *lpszPassword*)
Retrieves status of the specified type of call barring

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwType
type of call barring to retrieve status for (*RIL_BARRTYPE_* constant)

dwInfoClass
information class to retrieve barring status for (*RIL_INFOCLASS_* constant)

lpszPassword
password to retrieve barring status (can be *NULL* if password isn't required; no longer than *MAXLENGTH_PASSWORD* chars)

Comments Asynchronous. *lpData* points to a **DWORD** containing a *RIL_BARRINGSTATUS* constant.

RIL_GetCallerIdSettings

HRESULT RIL_GetCallerIdSettings(HRIL *hRil*)
Retrieves the current CallerID settings

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILCALLERIDSETTINGS** structure.

RIL_GetCallForwardingSettings

HRESULT RIL_GetCallForwardingSettings(HRIL *hRil*, **DWORD** *dwReason*, **DWORD** *dwAddressId*)
Retrieves current Call Forwarding rules

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwReason
forwarding reason to retrieve the settings for (*RIL_FWDREASON_* constant)

dwAddressId
address ID of line on which to get call forwarding settings

Comments Asynchronous. *lpData* points to an array of **RILCALLFORWARDINGSETTINGS** structure.

RIL_GetCallList

HRESULT RIL_GetCallList(HRIL *hRil*)
Retrieves the list of active, held, and waiting calls

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **RILCALLINFO** structures.

RIL_GetCallWaitingSettings

HRESULT RIL_GetCallWaitingSettings(HRIL *hRil*)
Retrieves info classes that Call Waiting is currently enabled for

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to DWORD containing a combination of *RIL_INFOCLASS_* constants.

RIL_GetCCBSStatus

HRESULT RIL_GetCCBSStatus(HRIL *hRil*, DWORD *dwCCBSIndex*)
Retrieves the status for a Completion of Call to Busy Subscriber index.

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

dwCCBSIndex
indicates which entry to query

Comments Asynchronous. If active, *lpData* points to an array of **chars** indicating the phone number for which CCBS is active. If CCBS is not active for that entry, *lpData* is *NULL*.

RIL_GetCellTowerInfo

HRESULT RIL_GetCellTowerInfo(HRIL *hRil*)
Retrieves information about the cell tower currently used by the phone

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILCELLTOWERINFO** structure.

RIL_GetClosedGroupSettings

HRESULT RIL_GetClosedGroupSettings(HRIL *hRil*)
Retrieves the current Closed User Group settings

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILCLOSEDGROUPSETTINGS** structure.

RIL_GetCostInfo

HRESULT RIL_GetCostInfo(HRIL *hRil*)
Retrieves advice-of-charge settings

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILCOSTINFO** structure. This feature is not used in Stinger and is untested.

RIL_GetCurrentAddressId

HRESULT RIL_GetCurrentAddressId(HRIL *hRil*)
Retrieves the current address identifier (see RILSUBSCRIBERINFO)

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a *DWORD* identifying the current address ID.

RIL_GetCurrentOperator

HRESULT RIL_GetCurrentOperator(HRIL *hRil*, DWORD *dwFormat*)
Retrieves the operator the ME is currently registered with

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize()**

dwFormat
format of the operator name to return (*RIL_OPFORMAT_* constant)

Comments Asynchronous. *lpData* points to an **RILOPERATORNAMES** structure.

RIL_GetDataCompression

HRESULT RIL_GetDataCompression(HRIL *hRil***)**
Retrieves data compression options

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an **RILDATACOMPINFO** structure.

RIL_GetDevCaps

HRESULT RIL_GetDevCaps(HRIL *hRil*, **DWORD** *dwCapsType***)**
Retrieves specified device capabilities

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwCapsType
type of caps class to retrieve

Comments

Asynchronous.

dwCapsType (*RIL_CAPSTYPE_*) *lpData*
_DIAL* points to an **RILCAPSDIAL structure
_DTMFDURATIONRANGE* points to an **RILRANGE structure (values in milliseconds)
_CALLMGTCMDS* points to **DWORD containing a combination of *RIL_CAPS_CALLCMD_* constants
_BEARERSERVICE* points to an **RILCAPSBEARERSVC structure
_RLP* points to an array of **RILAPSRLP structures
_EQUIPMENTSTATES* points to **DWORD containing a combination of *RIL_CAPS_EQSTATE_* constants
_PBSTORELOCATIONS* points to **DWORD containing a combination of *RIL_CAPS_PBLOC_* constants
_PBINDEXRANGE* points to an **RILRANGE structure
_PBENTRYTEXTLENGTH* points to a **DWORD
_MSGSERVICETYPES* points to **DWORD containing a combination of *RIL_CAPS_MSGSVCTYPE_* constants
_MSGMEMORYLOCATIONS* points to an **RILCAPSMSGMEMORYLOCATIONS structure
_BROADCASTMSGLANGS* points to **DWORD containing a combination of *RIL_CAPS_DCSLANG_* constants
_MSGCONFIGINDEXRANGE* points to an **RILRANGE structure
_MSGSTATUSVALUES* points to **DWORD containing a combination of *RIL_CAPS_MSGSTATUS_* constants
_PREFOPINDEXRANGE* points to an **RILRANGE structure
_LOCKFACILITIES* points to **DWORD containing a combination of *RIL_CAPS_LOCKFACILITY_* constants

*_LOCKINGPWDLENGTHS points to an array of **RILCAPSLOCKINGPWDLENGTH** structures
*_BARRTYPES points to **DWORD** containing a combination of *RIL_CAPS_BARRTYPE_* constants
*_BARRINGPWDLENGTHS points to an array of **RILCAPSBARRINGPWDLENGTH** structures
*_FORWARDINGREASONS points to **DWORD** containing a combination of *RIL_CAPS_FWDREASON_* constants
*_SIMTOOLKITNOTIFICATIONSpoints to a **TBD** SIMTOOLKIT structure
*_INFOCLASSES points to **DWORD** containing a combination of *RIL_CAPS_INFOCLASS_* constants
*_HSCSD points to an **RILCAPSHSCSD** structure
*_GPRS points to an **RILCAPSGPRS** structure

RIL_GetDialedIdSettings

HRESULT RIL_GetDialedIdSettings(HRIL *hRil*)
Retrieves the current DialedID settings

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILDIALEDIDSETTINGS** structure.

RIL_GetEquipmentInfo

HRESULT RIL_GetEquipmentInfo(HRIL *hRil*)
Retrieves manufacturer equipment information

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILEQUIPMENTINFO** structure.

RIL_GetEquipmentState

HRESULT RIL_GetEquipmentState(HRIL *hRil*)
Retrieves currently set equipment state

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILEQUIPMENTSTATE** structure.

RIL_GetErrorCorrection

HRESULT RIL_GetErrorCorrection(HRIL *hRil*)
Retrieves error correction options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILERRORCORRECTIONINFO** structure.

RIL_GetGPRSAddress

HRESULT RIL_GetGPRSAddress(HRIL *hRil*, DWORD *dwContextID*)
Gets the PDP address for a particular context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwContextID
identifies the context

Comments Asynchronous. *lpData* points to an array of **WCHAR** values indicating the address.

RIL_GetGPRSAttached

HRESULT RIL_GetGPRSAttached(HRIL *hRil*)
Gets the GPRS attach state

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **BOOL** indicating attach state.

RIL_GetGPRSClass

HRESULT RIL_GetGPRSClass(HRIL *hRil*)
Retrieves the current GPRS class

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a *RIL_GPRSCLASS_* constant.

RIL_GetGPRSContextActivatedList

HRESULT RIL_GetGPRSContextActivatedList(HRIL *hRil*)
Gets the GPRS activation state for all contexts

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILGPRSCONTEXTACTIVATED** indicating activation state.

RIL_GetGPRSContextList

HRESULT RIL_GetGPRSContextList(HRIL *hRil*)
Retrieves a list GPRS contexts

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILGPRSCONTEXT** structure.

RIL_GetGPRSRegistrationStatus

HRESULT RIL_GetGPRSRegistrationStatus(HRIL *hRil*)
Retrieves the current GPRS registration status

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a *RIL_REGSTAT_* constant.

RIL_GetHideConnectedIdSettings

HRESULT RIL_GetHideConnectedIdSettings(HRIL *hRil*)
Retrieves the current HideConnectedID settings

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILHIDECONNECTEDIDSETTINGS** structure.

RIL_GetHideIdSettings

HRESULT RIL_GetHideIdSettings(HRIL *hRil*)
Retrieves the current HideID settings

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILHIDEIDSETTINGS** structure.

RIL_GetHSCSDCallSettings

HRESULT RIL_GetHSCSDCallSettings(HRIL *hRil*)
Retrieves High Speeed Circuit Switched Data options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to an **RILCALLHSCSDINFO** structure.

RIL_GetHSCSDOptions

HRESULT RIL_GetHSCSDOptions(HRIL *hRil*)
Retrieves High Speeed Circuit Switched Data options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to an **RILHSCSDINFO** structure.

RIL_GetLineStatus

HRESULT RIL_GetLineStatus(HRIL *hRil*)
Retrieves the phone line status

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to **DWORD** containing *RIL_LINESTAT_* constant.

RIL_GetLockingStatus

HRESULT RIL_GetLockingStatus(HRIL *hRil*, DWORD *dwFacility*, LPCSTR *lpszPassword*)
Retrieves locking status for the specified facility

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwFacility
facility to retrieve locking status for (*RIL_LOCKFACILITY_* constant)

lpszPassword
password to retrieve locking status (can be *NULL* if password isn't required; no longer than MAXLENGTH_PASSWORD chars)

Comments
Asynchronous. *lpData* points to a **DWORD** containing a *RIL_LOCKINGSTATUS_* constant.

RIL_GetMinimumQualityOfServiceList

HRESULT RIL_GetMinimumQualityOfServiceList(HRIL *hRil*)
Gets the minimum quality of service profile for all contexts

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILGPRSQOSPROFILE** structure.

RIL_GetMOSMSService

HRESULT RIL_GetMOSMSService(HRIL *hRil*)
Retrieves the preferred SMS service option for mobile originated messages

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a *RIL_MOSMSSERVICE_* constant.

RIL_GetMsgConfig

HRESULT RIL_GetMsgConfig(HRIL *hRil*)
Gets currently set messaging configuration

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILMSGCONFIG** structure.

RIL_GetMsgServiceOptions

HRESULT RIL_GetMsgServiceOptions(HRIL *hRil*)
Gets currently set messaging service options

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILMSGSERVICEINFO** structure.

RIL_GetOperatorList

HRESULT RIL_GetOperatorList(HRIL *hRil*)
Retrieves the list of available operators

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **RILOPERATORINFO** structures.

RIL_GetPhonebookOptions

HRESULT RIL_GetPhonebookOptions(HRIL *hRil*)
Retrieves currently set phonebook options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an **RILPHONEBOOKINFO** structure.

RIL_GetPhoneLockedState

HRESULT RIL_GetPhoneLockedState(HRIL *hRil*)
Retrieves current locked state of the phone

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **DWORD** containing a *RIL_LOCKEDSTATE_* constant

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RIL_GetPreferredOperatorList

HRESULT RIL_GetPreferredOperatorList(HRIL *hRil*, DWORD *dwFormat*)
Retrieves the list of preferred operators

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwFormat
format to use for the operator names in the list

Comments Asynchronous. *lpData* points to an array of **RILOPERATORINFO** structures.

RIL_GetRadioPresence

HRESULT RIL_GetRadioPresence(HRIL *hRIL*, DWORD* *dwRadioPresence*)
Proxy API to determine if the Radio is present or Not (Is the RIL driver Loaded?)

Parameters
hRIL
handle to RIL instance returned by **RIL_Initialize**

dwRadioPresence
pointer to a DWORD (ouput param contains values from RIL_RADIOPRESENCE_*)

Comments Synchronous

RIL_GetRegistrationStatus

HRESULT RIL_GetRegistrationStatus(HRIL *hRil*)
Retrieves the current phone registration status

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to a *RIL_REGSTAT_* constant.

RIL_GetRequestedQualityOfServiceList

HRESULT RIL_GetRequestedQualityOfServiceList(HRIL *hRil*)
Gets the requested quality of service profile for all contexts

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to a **RILGPRSQOSPROFILE** structure.

RIL_GetRLPOptions

HRESULT RIL_GetRLPOptions(HRIL *hRil*)
Retrieves currently set Radio Link Protocol options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

Comments
Asynchronous. *lpData* points to an **RILRLPINFO** structure.

RIL_GetSerialPortHandle

HRESULT RIL_GetSerialPortHandle(HRIL *hRil*, HANDLE* *lphSerial*)
Retrieves a serial port handle to be used for data communications

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lphSerial
pointer to the serial port handle

Comments
Synchronous. Client is responsible for closing the handle returned in *lphSerial*.

RIL_GetSerialPortStatistics

HRESULT RIL_GetSerialPortStatistics(HRIL *hRil*, RILSERIALPORTSTATS* *lpSerialPortStats*)

Retrieves a serial port handle statistics

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpSerialPortStats
pointer to the statistics structure

Comments Synchronous

RIL_GetSignalQuality

HRESULT RIL_GetSignalQuality(HRIL *hRil*)

Retrieves information about the received signal quality

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **RILSIGNALQUALITY** structure.

RIL_GetSimRecordStatus

HRESULT RIL_GetSimRecordStatus(HRIL *hRil*, DWORD *dwFileID*)

Retrieves SIM Record Status

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwFileID
address of the file to read

Comments Asynchronous. *lpData* points to RILSIMRECORDSTATUS

RIL_GetSimToolkitProfile

HRESULT RIL_GetSimToolkitProfile(HRIL *hRil*)

Retrieves SIM Toolkit terminal profile

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **BYTE**s.

RIL_GetSubscriberNumbers

HRESULT RIL_GetSubscriberNumbers(HRIL *hRil*)

Restrieves information about subscriber numbers

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **RILSUBSCRIBERINFO** structures.

RIL_GetSystemTime

HRESULT RIL_GetSystemTime(HRIL *hRil*)
Retrieves the systemtime from the network

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to a **SYSTEMTIME** structure. This feature is currently not used in Stinger and is untested.

RIL_GetUserIdentity

HRESULT RIL_GetUserIdentity(HRIL *hRil*)
Retrieves International Mobile Subscriber Identity of the phone user

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* points to an array of **chars**

RIL_GPRSAnswer

HRESULT RIL_GPRSAnswer(HRIL *hRil*)
Answers an incoming GPRS activation request

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* is *NULL*.

RIL_Hangup

HRESULT RIL_Hangup(HRIL *hRil*)
Hangs up all calls currently in progress

Parameters *hRil*
handle to RIL instance returned by **RIL_Initialize**

Comments Asynchronous. *lpData* is *NULL*.

RIL_Initialize

HRESULT RIL_Initialize(DWORD *dwIndex*, **RILRESULTCALLBACK** *pfnResult*, **RILNOTIFYCALLBACK** *pfnNotify*, **DWORD** *dwNotificationClasses*, **DWORD** *dwParam*, **HRIL*** *lphRil*)

Initializes RIL for use by this client

Parameters

dwIndex
index of the RIL port to use (e.g., 1 for RIL1:)

pfnResult
function result callback

pfnNotify
notification callback

dwNotificationClasses
classes of notifications to be enabled for this client

dwParam
custom parameter passed to result and notifiifcation callbacks

lphRil
returned handle to RIL instance

Comments

Synchronous RIL only supports single threaded RIL handles. The RIL validates the application's RIL handle before using it. No application can use/close a RIL handle that it does not own.

RIL_InitializeEmergency

HRESULT RIL_InitializeEmergency(DWORD *dwIndex*, **RILRESULTCALLBACK** *pfnResult*, **RILNOTIFYCALLBACK** *pfnNotify*, **DWORD** *dwNotificationClasses*, **DWORD** *dwParam*, **HRIL*** *lphRil*)

Initializes RIL for use by this emergency call module

Parameters

dwIndex
index of the RIL port to use (e.g., 1 for RIL1:)

pfnResult
function result callback

pfnNotify
notification callback

dwNotificationClasses
classes of notifications to be enabled for this client

dwParam
custom parameter passed to result and notifiifcation callbacks

lphRil
returned handle to RIL instance

Comments

Synchronous

RIL_ManageCalls

HRESULT RIL_ManageCalls(HRIL *hRil*, **DWORD** *dwCommand*, **DWORD** *dwID*)
Modifies the state of active, held, and waiting calls

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwCommand
call modification command to be performed (*RIL_CALLCMD_* constant)

dwID
ID of the call to be modified (only for *RIL_CALLCMD_RELEASECALL* and *RIL_CALLCMD_HOLDALLBUTONE*)

Comments

Asynchronous. *lpData* is *NULL*.

RIL_ReadMsg

HRESULT RIL_ReadMsg(HRIL *hRil*, **DWORD** *dwIndex*)
Reads a message from the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index of the message to be read

Comments

Asynchronous. *lpData* points to an **RILMESSAGEINFO** structure.

RIL_ReadPhonebookEntries

HRESULT RIL_ReadPhonebookEntries(HRIL *hRil*, **DWORD** *dwStartIndex*, **DWORD** *dwEndIndex*)
Reads phonebook entries from the specified range of indices of the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwStartIndex
starting index of the range

dwEndIndex
ending index of the range

Comments

Asynchronous. *lpData* points to an array of **RILPHONEBOOKENTRY** structures.

RIL_RegisterOnNetwork

HRESULT RIL_RegisterOnNetwork(HRIL *hRil*, **DWORD** *dwMode*, **const RILOPERATORNAMES*** *lpOperatorNames*)
Registers the ME with a network operator

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwMode
operator selection mode (*RIL_OPSELMODE_* constant)

lpOperatorNames
operator to be selected (can be *NULL* if *dwMode* is *RIL_OPSELMODE_AUTOMATIC*)

Comments Asynchronous. *lpData* is *NULL*.

RIL_RemoveCallForwarding

HRESULT RIL_RemoveCallForwarding(HRIL *hRil*, **DWORD** *dwReason*, **DWORD** *dwInfoClasses*, **DWORD** *dwAddressId*)
Removes a Call Forwarding rule

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwReason
forwarding reason to remove Call Forwarding for (*RIL_FWDREASON_* constant)

dwInfoClasses
information classes to remove Call Forwarding for (combination of *RIL_INFOCLASS_* constants)

dwAddressId
address ID of line on which to change call forwarding settings

Comments Asynchronous. *lpData* is *NULL*.

RIL_RemovePreferredOperator

HRESULT RIL_RemovePreferredOperator(HRIL *hRil*, **DWORD** *dwIndex*)
Removes a specified operator from the list of preferred operators

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
storage index of the preferred operator to remove

Comments Asynchronous. *lpData* is *NULL*.

RIL_RestoreMsgConfig

HRESULT RIL_RestoreMsgConfig(HRIL *hRil*, **DWORD** *dwIndex*)
Restores a previously saved messaging configuration

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index of the configuration to restore

Comments Asynchronous. *lpData* is *NULL*.

RIL_SaveMsgConfig

HRESULT RIL_SaveMsgConfig(HRIL *hRil*, **DWORD** *dwIndex*)
Saves currently set messaging configuration

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index to be assigned to the stored configuration

Comments Asynchronous. *lpData* is *NULL*.

RIL_SendDTMF

HRESULT RIL_SendDTMF(HRIL *hRil*, **LPCSTR** *lpszChars*, **DWORD** *dwDuration*)
Sends DTMF tones across an established voice call

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpszChars
alphanumeric string representing DTMF tones to be sent (0-9, A-D, *, #)

dwDuration
new DTMF tone duration in milliseconds (*RIL_DTMFDURATION_DEFAULT* corresponds to the manufacturer's default value)

Comments Asynchronous. *lpData* is *NULL*. Function does not return until DTMF tone has completed. BUGBUG This does not allow press and hold DTMF functionality.

RIL_SendMsg

HRESULT RIL_SendMsg(HRIL *hRil*, **const RILMESSAGE*** *lpMessage*, **DWORD** *dwOptions*)
Sends a message

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpMessage
message to be sent

dwOptions
options (any combination of *RIL_SENDOPT_* constants)

Comments

Asynchronous. *lpData* points to a **DWORD** conaining the reference number of the sent message.

RIL_SendMsgAcknowledgement

HRESULT RIL_SendMsgAcknowledgement(HRIL *hRil*, **BOOL** *fSuccess*)
Sends an message ackknowledgement

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

fSuccess
TRUE if success acknowledgment is to be sent; FALSE otherwise

Comments

Asynchronous. *lpData* is *NULL*. On Phase 2 mobiles, the radio automatically sends SMS message ACKs. But in Phase 2+, the MMI is responsible for these ACKs, hense this function.

RIL_SendRestrictedSimCmd

HRESULT RIL_SendRestrictedSimCmd(HRIL *hRil*, **DWORD** *dwCommand*, **const RILSIMCMDPARAMETERS*** *lpParameters*, **const BYTE*** *lpbData*, **DWORD** *dwSize*)
Sends a specified restricted command to the SIM

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwCommand
restricted command to be sent to the SIM (*RIL_SIMCMD_* constant)

lpParameters
Parameters for the command to be sent (can be *NULL* if parameters aren't required)

lpbData
Data to be written to the SIM (can be *NULL* if data isn't required)

dwSize
Size of the data pointed to by *lpbData* in bytes

Comments

Asynchronous. *lpData* points to an **RILSIMRESPONSE** structure.

RIL_SendSimCmd

HRESULT RIL_SendSimCmd(HRIL *hRil*, **const BYTE*** *lpbCommand*, **DWORD** *dwSize*)

Sends a specified command to the SIM

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbCommand
command to be sent to the SIM

dwSize
size of the data pointed to by *lpbCommand* in bytes

Comments Asynchronous. *lpData* points to an array of **BYTE**s.

RIL_SendSimToolkitCmdResponse

HRESULT RIL_SendSimToolkitCmdResponse(HRIL *hRil*, **const BYTE*** *lpbResponse*, **DWORD** *dwSize*)

Sends a response to an executed SIM Toolkit command

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbResponse
response to be sent

dwSize
size of the data pointed to by *lpbResponse* in bytes

Comments Asynchronous. *lpData* is *NULL*.

RIL_SendSimToolkitEnvelopeCmd

HRESULT RIL_SendSimToolkitEnvelopeCmd(HRIL *hRil*, **const BYTE*** *lpbCommand*, **DWORD** *dwSize*)

Sends a SIM Toolkit envelope command

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbCommand
SIM Toolkit envelope command to be sent

dwSize
size of the data pointed to by *lpbCommand* in bytes

Comments Asynchronous. *lpData* points to an array of **BYTE**s containing a response to the sent command.

RIL_SendStoredMsg

HRESULT RIL_SendStoredMsg(HRIL *hRil*, **DWORD** *dwIndex*, **DWORD** *dwOptions*)
Sends a message from the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwIndex
index of the message to be sent

dwOptions
options (any combination of *RIL_SENDOPT_* constants)

Comments Asynchronous. *lpData* points to a **DWORD** conaining the reference number of the sent message. This feature is not used in Stinger and is untested.

RIL_SendSupServiceData

HRESULT RIL_SendSupServiceData(HRIL *hRil*, **const BYTE*** *lpbData*, **DWORD** *dwSize*)
Sends supplementary service (USSD) data

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbData
data to be sent

dwSize
size of the data pointed to by *lpbData* in bytes

Comments TBD

RIL_SetAudioDevices

HRESULT RIL_SetAudioDevices(HRIL *hRil*, **const RILAUDIODEVICEINFO*** *lpAudioDeviceInfo*)
Sets currently used transmit and receive audio devices

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpAudioDeviceInfo
audio devices to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetAudioGain

HRESULT RIL_SetAudioGain(HRIL *hRil*, **const RILGAININFO*** *lpGainInfo*)
Sets audio gain information

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpGainInfo
audio gain information to be sent

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetAudioMuting

HRESULT RIL_SetAudioMuting(HRIL *hRil*, **BOOL** *fEnable*)
Mutes or un-mutes the input audio device

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

fEnable
TRUE if input audio device is to be muted; FALSE otherwise

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetBearerServiceOptions

HRESULT RIL_SetBearerServiceOptions(HRIL *hRil*, **const RILBEARERSVCINFO*** *lpBearerServiceInfo*)
Sets data bearer service options

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpBearerServiceInfo
data bearer service options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetCallBarringStatus

HRESULT RIL_SetCallBarringStatus(HRIL *hRil*, **DWORD** *dwType*, **DWORD** *dwInfoClass*, **LPCSTR** *lpszPassword*, **DWORD** *dwStatus*)
Enables or disables the specified type of call barring

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwType
type of call barring to enable/disable (*RIL_BARRTYPE_* constant)

dwInfoClass
information class to enable/disable call barring for (*RIL_INFOCLASS_* constant)

lpszPassword
password to enable/disable call barring (can be *NULL* if password isn't required; no longer than *MAXLENGTH_PASSWORD* chars)

dwStatus
status to be set (*RIL_BARRINGSTATUS_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetCallerIdStatus

HRESULT RIL_SetCallerIdStatus(HRIL *hRil*, **DWORD** *dwStatus*)
Sets the current CallerID status

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetCallForwardingStatus

HRESULT RIL_SetCallForwardingStatus(HRIL *hRil*, **DWORD** *dwReason*, **DWORD** *dwInfoClasses*, **DWORD** *dwStatus*, **DWORD** *dwAddressId*)
Enables or disables the specified Call Forwarding rule

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwReason
forwarding reason to enable/disable Call Forwarding for (*RIL_FWDREASON_* constant)

dwInfoClasses
information classes to enable/disable Call Forwarding for (combination of *RIL_INFOCLASS_* constants)

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

dwAddressId
address ID of line on which to change call forwarding settings

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetCallWaitingStatus

HRESULT RIL_SetCallWaitingStatus(HRIL *hRil*, **DWORD** *dwInfoClasses*, **DWORD** *dwStatus*)
Enables or disables Call Waiting for the specified info class

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwInfoClasses
information classes to enable/disable Call Waiting for

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetClosedGroupSettings

HRESULT RIL_SetClosedGroupSettings(HRIL *hRil*, **const RILCLOSEDGROUPSETTINGS*** *lpSettings*)
Sets the Closed User Group settings

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpSettings
settings to be set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetCostInfo

HRESULT RIL_SetCostInfo(HRIL *hRil*, **const RILCOSTINFO*** *lpCostInfo*, **LPCSTR** *lpszPassword*)
Sets advice-of-charge settings

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpCostInfo
advice-of-charge settings to set

lpszPassword
password requred to set advice-of-charge settings

Comments Asynchronous. *lpData* points to a **RILCOSTINFO** structure. This feature is not used in Stinger and is untested.

RIL_SetCurrentAddressId

HRESULT RIL_SetCurrentAddressId(HRIL *hRil*, **DWORD** *dwAddressId*)
Sets the current address identifier (see RILSUBSCRIBERINFO)

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwAddressId
identifies the new addressID to use

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetDataCompression

HRESULT RIL_SetDataCompression(HRIL *hRil*, **const RILDATACOMPINFO*** *lpDataCompInfo*)
Sets data compression options

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpDataCompInfo
data compression options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetDialedIdStatus

HRESULT RIL_SetDialedIdStatus(HRIL *hRil*, **DWORD** *dwStatus*)
Sets the current DialedID settings

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetDTMFMonitoring

HRESULT RIL_SetDTMFMonitoring(HRIL *hRil*, **BOOL** *fEnable*)
Detects DTMF tones from an established voice call

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

fEnable
TRUE to initiate DTMF monitoring; FALSE to cancel

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetEquipmentState

HRESULT RIL_SetEquipmentState(HRIL *hRil*, **DWORD** *dwEquipmentState*)
Sets the equipment to the specified state

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwEquipmentState
equipment state to set (*RIL_EQSTATE_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetErrorCorrection

HRESULT RIL_SetErrorCorrection(HRIL *hRil*, **const RILERRORCORRECTIONINFO*** *lpErrorCorrectionInfo*)
Set error correction options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lpErrorCorrectionInfo
error correction options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetGPRSAttached

HRESULT RIL_SetGPRSAttached(HRIL *hRil*, **BOOL** *fAttached*)
Sets the GPRS attach state

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

fAttached
TRUE: attached, FALSE: detached

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetGPRSClass

HRESULT RIL_SetGPRSClass(HRIL *hRil*, **DWORD** *dwClass*)
Sets the current GPRS class

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwClass
a RIL_GPRSCLASS_* constant

Comments Asynchronous. *lpData* is *NULL*

RIL_SetGPRSContext

HRESULT RIL_SetGPRSContext(HRIL *hRil*, const RILGPRSCONTEXT* *lpGprsContext*)
Sets a particular GPRS context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lpGprsContext
points to a **RILGPRSCONTEXT** structure

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetGPRSContextActivated

HRESULT RIL_SetGPRSContextActivated(HRIL *hRil*, DWORD *dwContextID*, BOOL *fContextActivation*)
Sets the GPRS activation state for a context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwContextID
identifies the context

fContextActivation
TRUE: activated, FALSE: deactivated

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetHideConnectedIdStatus

HRESULT RIL_SetHideConnectedIdStatus(HRIL *hRil*, DWORD *dwStatus*)
Sets the current HideConnectedID settings

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetHideIdStatus

HRESULT RIL_SetHideIdStatus(HRIL *hRil*, **DWORD** *dwStatus*)
Enables or disables HideID service

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwStatus
status to be set (*RIL_SVCSTAT_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetHSCSDOptions

HRESULT RIL_SetHSCSDOptions(HRIL *hRil*, **const RILHSCSDINFO*** *lpHscsdInfo*)
Sets High Speeed Circuit Switched Data options

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpHscsdInfo
High Speeed Circuit Switched Data options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetLockingStatus

HRESULT RIL_SetLockingStatus(HRIL *hRil*, **DWORD** *dwFacility*, **LPCSTR** *lpszPassword*, **DWORD** *dwStatus*)
Enables or disables locking status for the specified facility

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwFacility
facility to enable/disable locking for (*RIL_LOCKFACILITY_* constant)

lpszPassword
password to enable/disable locking (can be *NULL* if password isn't required; no longer than *MAXLENGTH_PASSWORD* chars)

dwStatus
status to be set (*RIL_LOCKINGSTATUS_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetMinimumQualityOfService

HRESULT RIL_SetMinimumQualityOfService(HRIL *hRil*, **const RILGPRSQOSPROFILE*** *lpGprsQosProfile*)
Sets the minimum quality of service profile for a context

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpGprsQosProfile
points to a **RILGPRSQOSPROFILE** structure

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetMOSMSService

HRESULT RIL_SetMOSMSService(HRIL *hRil*, **DWORD** *dwMoSmsService*)
Sets the preferred SMS service option for mobile originated messages

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwMoSmsService
a RIL_MOSMSSERVICE_* constant

Comments Asynchronous. *lpData* is *NULL*

RIL_SetMsgConfig

HRESULT RIL_SetMsgConfig(HRIL *hRil*, **const RILMSGCONFIG*** *lpMsgConfigInfo*)
Sets messaging configuration

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpMsgConfigInfo
messaging configuration to be set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetMsgServiceOptions

HRESULT RIL_SetMsgServiceOptions(HRIL *hRil*, **const RILMSGSERVICEINFO*** *lpMsgServiceInfo*)
Sets messaging service options

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpMsgServiceInfo
messaging service options to be set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetPhonebookOptions

HRESULT RIL_SetPhonebookOptions(HRIL *hRil*, **const RILPHONEBOOKINFO*** *lpPhonebookInfo*)
Sets phonebook options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lpPhonebookInfo
phonebook options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetRequestedQualityOfService

HRESULT RIL_SetRequestedQualityOfService(HRIL *hRil*, **const RILGPRSQOSPROFILE*** *lpGprsQosProfile*)
Sets the requested quality of service profile for a context

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lpGprsQosProfile
points to a **RILGPRSQOSPROFILE** structure

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetRLPOptions

HRESULT RIL_SetRLPOptions(HRIL *hRil*, **const RILRLPINFO*** *lpRlpInfo*)
Sets Radio Link Protocol options

Parameters
hRil
handle to RIL instance returned by **RIL_Initialize**

lpRlpInfo
Radio Link Protocol options to set

Comments Asynchronous. *lpData* is *NULL*.

RIL_SetSimToolkitProfile

HRESULT RIL_SetSimToolkitProfile(HRIL *hRil*, **const BYTE*** *lpbProfile*, **DWORD** *dwSize*)
Sets SIM Toolkit terminal profile

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpbProfile
SIM Toolkit profile to be set

dwSize
size of the data pointed to by *lpbProfile* in bytes

Comments Asynchronous. *lpData* is *NULL*.

RIL_TerminateSimToolkitSession

HRESULT RIL_TerminateSimToolkitSession(HRIL *hRil*, **DWORD** *dwCause*)
Terminates the SIM Toolkit session

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

dwCause
cause for session termination (*RIL_SIMTKITTERMCAUSE_* constant)

Comments Asynchronous. *lpData* is *NULL*.

RIL_TransferCall

HRESULT RIL_TransferCall(HRIL *hRil*, **const RILADDRESS*** *lpAddress*, **const RILSUBADDRESS*** *lpSubAddress*)
Transfers incoming allerting call to the specified number

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpAddress
address to transfer the call to

lpSubAddress
sub-address to transfer the call to (can be *NULL*)

Comments Asynchronous. *lpData* is *NULL*.

RIL_UnlockPhone

HRESULT RIL_UnlockPhone(HRIL *hRil*, **LPCSTR** *lpszPassword*, **LPCSTR** *lpszNewPassword*)

Removes current lock applied to the phone

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpszPassword
password to unlock the phone (no longer than *MAXLENGTH_PASSWORD* chars)

lpszNewPassword
new password (can be *NULL*, unless the current locked state is one of the *RIL_LOCKEDSTATE_*_PUK* constants; no longer than *MAXLENGTH_PASSWORD* chars)

Comments

Asynchronous. *lpData* is *NULL*.

RIL_UnregisterFromNetwork

HRESULT RIL_UnregisterFromNetwork(HRIL *hRil*)

Unregisters the ME from the current newtwork operator

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* is *NULL*.

RIL_WriteMsg

HRESULT RIL_WriteMsg(HRIL *hRil*, **const RILMESSAGE*** *lpMessage*, **DWORD** *dwStatus*)

Writes a message to the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpMessage
message to be written (of type *RIL_MSGTYPE_IN_DELIVER* or *RIL_MSGTYPE_OUT_SUBMIT*)

dwStatus
status to assigned to the written message (*RIL_MSGSTATUS_* constant)

Comments

Asynchronous. *lpData* points to a **DWORD** conaining the index used.

RIL_WritePhonebookEntry

HRESULT RIL_WritePhonebookEntry(HRIL *hRil*, **const RILPHONEBOOKENTRY*** *lpEntry*)

Writes a phonebook entry to the current storage location

Parameters

hRil
handle to RIL instance returned by **RIL_Initialize**

lpEntry
phonebook entry to write out

Comments Asynchronous. *lpData* is *NULL*.

---

void (CALLBACK *RILNOTIFYCALLBACK)

typedef void (CALLBACK *RILNOTIFYCALLBACK)(DWORD *dwCode*, **const void*** *lpData*, **DWORD** *cbData*, **DWORD** *dwParam*)

RIL notification callback

Parameters

dwCode
notification code

lpData
data associated with the notification

cbData
size of the strcuture pointed to lpData

dwParam
parameter passed to **RIL_Initialize**

Comments This function is called when the radio sends an unsolicited notifiation

---

void (CALLBACK *RILRESULTCALLBACK)

typedef void (CALLBACK *RILRESULTCALLBACK)(DWORD *dwCode*, **HRESULT** *hrCmdID*, **const void*** *lpData*, **DWORD** *cbData*, **DWORD** *dwParam*)

RIL function result callback

Parameters

dwCode
result code

hrCmdID
ID returned by the command that originated this response

lpData
data associated with the notification

cbData
size of the strcuture pointed to lpData

dwParam
parameter passed to **RIL_Initialize**

Comments This function is called to send a return value after and asynchronous RIL function call

---

RILADDRESS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwType;
    DWORD dwNumPlan;
    WCHAR wszAddress[MAXLENGTH_ADDRESS];
} RILADDRESS;
```

Represents a phone number

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwType
type of number

dwNumPlan
numbering plan

wszAddress[MAXLENGTH_ADDRESS]
address (min 3, max 43)

Comments None

RILAUDIODEVICEINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwTxDevice;
    DWORD dwRxDevice;
} RILAUDIODEVICEINFO;
```

Audio device information

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwTxDevice
transmit device

dwRxDevice
receive device

Comments None

RILBEARERSVCINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwSpeed;
    DWORD dwServiceName;
    DWORD dwConnectionElement;
} RILBEARERSVCINFO;
```

Bearer service settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwSpeed
offered data speed (protocol dependant)

dwServiceName
type of data service

dwConnectionElement
indicates transparent or non-transparent connection

Comments For *RIL_BSVCCE_BOTH_* constants, the subsequent text indicates the preferred connection element. For instance, *RIL_BSVCCE_BOTH_TRANSPARENT* means that both transparent and non transparent are supported, but transparent is preferred.

RILCALLERIDSETTINGS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwProvisioning;
} RILCALLERIDSETTINGS;
```

Caller ID settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwProvisioning
network provisioning status

Comments None

RILCALLFORWARDINGSETTING Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwInfoClasses;
    RILADDRESS raAddress;
    RILSUBADDRESS rsaSubAddress;
    DWORD dwDelayTime;
} RILCALLFORWARDINGSETTING;
```

Call forwarding service settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwInfoClasses
indicates which classes of calls to forward

raAddress
forwarding address

rsaSubAddress
forwarding subaddress

dwDelayTime
seconds to wait in *RIL_FWDREASON_NOREPLY* case

Comments None

RILCALLHSCSDINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwRxTimeslots;
    DWORD dwTxTimeslots;
    DWORD dwAirInterfaceUserRate;
    DWORD dwChannelCoding;
```

```
} RILCALLHSCSDINFO;
```

High speed circuit switched data information for the current call

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwRxTimeslots
number of receive timeslots currently in use

dwTxTimeslots
number of transmit timeslots currently in use

dwAirInterfaceUserRate
air interface user rate currently in use

dwChannelCoding
current channel coding

Comments

None

RILCALLINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwID;
    DWORD dwDirection;
    DWORD dwStatus;
    DWORD dwType;
    DWORD dwMultiparty;
    RILADDRESS raAddress;
    WCHAR wszDescription[MAXLENGTH_DESCRIPTION];
} RILCALLINFO;
```

Information about a specific call

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwID
identifies each call

dwDirection
incoming or outgoing

dwStatus
properties of the call

dwType
voice or data or fax

dwMultiparty
conference call status

raAddress
call address

wszDescription[MAXLENGTH_DESCRIPTION]
any associated text

Comments None

RILCALLWAITINGINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwCallType;
    DWORD dwAddressId;
    RILREMOTEPARTYINFO rrpiCallerInfo;
} RILCALLWAITINGINFO;
```

Call waiting info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwCallType
type of call

dwAddressId
indicates address ID on which the incoming call arrived (if available)

rrpiCallerInfo
caller information

Comments None

RILCAPSBARRINGPWDLENGTH Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwType;
    DWORD dwPasswordLength;
} RILCAPSBARRINGPWDLENGTH;
```

Call barring password length capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwType
type of call barring

dwPasswordLength
maximum password length (TBD BUGBUG, should this be a range?)

Comments None

RILCAPSBEARERSVC Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwSpeeds1;
    DWORD dwSpeeds2;
    DWORD dwServiceNames;
    DWORD dwConnectionElements;
} RILCAPSBEARERSVC;
```

Bearer service capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwSpeeds1
TBD

dwSpeeds2
TBD

dwServiceNames
TBD

dwConnectionElements
TBD

Comments None

RILCAPSDIAL Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwCallTypes;
    DWORD dwOptions;
} RILCAPSDIAL;
```

Dialing capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwCallTypes
type of call being placed

dwOptions
dialing options

Comments None

RILCAPSHSCSD Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwMultislotClass;
    DWORD dwMaxRxTimeslots;
    DWORD dwMaxTxTimeslots;
    DWORD dwMaxTotalTimeslots;
    DWORD dwChannelCodings;
    DWORD dwAirInterfaceUserRates;
    RILRANGE rrTopRxTimeslotRange;
} RILCAPSHSCSD;
```

High Speed Circuit Switched Data capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwMultislotClass
multislot class supported

dwMaxRxTimeslots
maximum number of receive timeslots

dwMaxTxTimeslots
maximum number of transmit timeslots

dwMaxTotalTimeslots
maximum number of total timeslots

dwChannelCodings
supported channel codings

dwAirInterfaceUserRates
supported air interfacerates

rrTopRxTimeslotRange
TBD

Comments None

RILCAPSLOCKINGPWDLENGTH Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwFacility;
    DWORD dwPasswordLength;
} RILCAPSLOCKINGPWDLENGTH;
```

Locking password length capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwFacility
the locking facility

dwPasswordLength
maximum password length (TBD BUGBUG, should this be a range?)

Comments None

RILCAPSMSGMEMORYLOCATIONS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwReadLocations;
    DWORD dwWriteLocations;
    DWORD dwStoreLocations;
} RILCAPSMSGMEMORYLOCATIONS;
```

Message memory location capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwReadLocations
supported read locations

dwWriteLocations
supported write locations

dwStoreLocations
supported store locations

Comments None

RILCAPSRLP Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwVersion;
    RILRANGE rrIWSRange;
    RILRANGE rrMWSRange;
    RILRANGE rrAckTimerRange;
    RILRANGE rrRetransmissionAttsRange;
    RILRANGE rrReseqPeriodRange;
} RILCAPSRLP;
```

Radio Link Protocol capabilities

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwVersion
TBD

rrIWSRange
TBD

rrMWSRange
TBD

rrAckTimerRange
TBD

rrRetransmissionAttsRange
TBD

rrReseqPeriodRange
TBD

Comments

None

RILCELLTOWERINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwMobileCountryCode;
    DWORD dwMobileNetworkCode;
    DWORD dwLocationAreaCode;
    DWORD dwCellID;
    DWORD dwBaseStationID;
    DWORD dwBroadcastControlChannel;
    DWORD dwRxLevel;
    DWORD dwRxLevelFull;
```

```
    DWORD dwRxLevelSub;
    DWORD dwRxQuality;
    DWORD dwRxQualityFull;
    DWORD dwRxQualitySub;
    DWORD dwIdleTimeSlot;
    DWORD dwTimingAdvance;
    DWORD dwGPRSCellID;
    DWORD dwGPRSBaseStationID;
} RILCELLTOWERINFO;
```

Cell tower info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwMobileCountryCode
TBD

dwMobileNetworkCode
TBD

dwLocationAreaCode
TBD

dwCellID
TBD

dwBaseStationID
TBD

dwBroadcastControlChannel
TBD

dwRxLevel
Value from 0-63 (see GSM 05.08, 8.1.4)

dwRxLevelFull
Value from 0-63 (see GSM 05.08, 8.1.4)

dwRxLevelSub
Value from 0-63 (see GSM 05.08, 8.1.4)

dwRxQuality
Value from 0-7 (see GSM 05.08, 8.2.4)

dwRxQualityFull
Value from 0-7 (see GSM 05.08, 8.2.4)

dwRxQualitySub
Value from 0-7 (see GSM 05.08, 8.2.4)

dwIdleTimeSlot
TBD

dwTimingAdvance
TBD

dwGPRSCellID
TBD

dwGPRSBaseStationID
TBD

Comments None

RILCLOSEDGROUPSETTINGS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwIndex;
    DWORD dwInfo;
} RILCLOSEDGROUPSETTINGS;
```

Close user group settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwIndex
CUG index

dwInfo
additional CUG flags

Comments This feature is not used in Stinger and is untested.

RILCONNECTINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwCallType;
    DWORD dwBaudRate;
} RILCONNECTINFO;
```

Connection info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwCallType
type of the established connection (*RIL_CALLTYPE_* constant)

dwBaudRate
Baud rate of the established connection (set only for *RIL_CALLTYPE_DATA*)

Comments None

RILCOSTINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwCCM;
    DWORD dwACM;
    DWORD dwMaxACM;
    DWORD dwCostPerUnit;
    WCHAR wszCurrency[MAXLENGTH_CURRENCY];
} RILCOSTINFO;
```

Service cost info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwCCM
current call meter

dwACM
accumulated call meter

dwMaxACM
maximum accumulated call meter

dwCostPerUnit
cost per unit, in 16.16 fixed point

wszCurrency[MAXLENGTH_CURRENCY]
current currency

Comments None

RILDATACOMPINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwDirection;
    DWORD dwNegotiation;
    DWORD dwMaxDictEntries;
    DWORD dwMaxStringLength;
} RILDATACOMPINFO;
```

Data compression settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwDirection
compression in transmit and/or receive direcitons

dwNegotiation
compression is required or optional

dwMaxDictEntries
maximum number of dictionary entries

dwMaxStringLength
maximum string length

Comments None

RILDIALEDIDSETTINGS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwProvisioning;
} RILDIALEDIDSETTINGS;
```

Dialed ID settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwProvisioning
network provisioning status

Comments None

RILDIALINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    HRESULT hrCmdId;
    DWORD dwCallId;
} RILDIALINFO;
```

Ring information

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

hrCmdId
handle of call being dialed

dwCallId
id of call being dialed

Comments None

RILENTERGPRSDATAMODE Structure

```
typedef struct {
    DWORD cbSize;
} RILENTERGPRSDATAMODE;
```

A quality of service profile

Members

cbSize
structure size in bytes

Comments None
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

Parameters

dwL2Protocol
an optional RILL2PROTOCOL_* constant

dwNumContexts
number of contexts which follow

dwContextID[]
identifies the context(s) to enter data state

RILEQUIPMENTINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    char szManufacturer[MAXLENGTH_EQUIPINFO];
    char szModel[MAXLENGTH_EQUIPINFO];
    char szRevision[MAXLENGTH_EQUIPINFO];
    char szSerialNumber[MAXLENGTH_EQUIPINFO];
} RILEQUIPMENTINFO;
```

Equipment info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

szManufacturer[MAXLENGTH_EQUIPINFO]
manufacturer of the radio hardware

szModel[MAXLENGTH_EQUIPINFO]
model of the radio hardware

szRevision[MAXLENGTH_EQUIPINFO]
software version of the radio stack

szSerialNumber[MAXLENGTH_EQUIPINFO]
equipment identity (IMEI)

Comments None

RILEQUIPMENTSTATE Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwRadioSupport;
    DWORD dwEqState;
} RILEQUIPMENTSTATE;
```

Equipment state

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwRadioSupport
RIL_RADIOSUPPORT_* Parameter

dwEqState
RIL_EQSTATE_* Parameter

Comments None

RILERRORCORRECTIONINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwOriginalRequest;
    DWORD dwOriginalFallback;
    DWORD dwAnswererFallback;
} RILERRORCORRECTIONINFO;
```

Error correction settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwOriginalRequest
TBD

dwOriginalFallback
TBD

dwAnswererFallback
TBD

Comments None

RILGAININFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwTxGain;
    DWORD dwRxGain;
} RILGAININFO;
```

Audio gain information

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwTxGain
transmit gain level (128 nominal, 0 automatic)

dwRxGain
receive gain level (128 nominal, 0 automatic)

Comments None

RILGPRSANSWER Structure

```
typedef struct {
    DWORD cbSize;
} RILGPRSANSWER;
```

A quality of service profile

Members

cbSize
structure size in bytes

Comments None
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

Parameters

fAnswer
TRUE: accept, FALSE: reject

dwL2Protocol
an optional RILL2PROTOCOL_* constant

dwNumContexts
number of contexts which follow

dwContextID[]
identifies the context(s) to enter data state

RILGPRSCONTEXT Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwContextID;
    DWORD dwProtocolType;
     RILGPRSCONTEXT;
    WCHAR wszAddress[MAXLENGTH_GPRSADDRESS];
    DWORD dwDataCompression;
    DWORD dwHeaderCompression;
    DWORD dwParameterLength;
    char szParameters[];
} RILGPRSCONTEXT;
```

A PDP Context represents a certain configuration for packet data communication.

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwContextID
the context number

dwProtocolType
a RIL_GPRSPROTOCOL_*constant

RILGPRSCONTEXT
a logical name to select the gateway gprs (which defines the external packet data network to use)

wszAddress[MAXLENGTH_GPRSADDRESS]
the packet address to use (if null, request dynamic)

dwDataCompression
a RIL_GPRSDATACOMP_*

dwHeaderCompression
a RIL_GPRSHEADERCOMP_*

dwParameterLength
length of parameters list

szParameters[]
parameters specific to the prococol type

Comments None
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

RILGPRSCONTEXTACTIVATED Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwContextID;
    BOOL fActivated;
} RILGPRSCONTEXTACTIVATED;
```

Shows which contexts are active

Members

cbSize
structure size in bytes

dwContextID
the context number

fActivated
whether the context is activated

Comments None

RILGPRSPROTOCOLCAPS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwProtocolType;
    DWORD dwPrecedenceClass;
    DWORD dwDelayClass;
    DWORD dwReliabilityClass;
    DWORD dwPeakThruClass;
    DWORD dwMeanThruClass;
} RILGPRSPROTOCOLCAPS;
```

General Packet Radio Service capabilities

Members

cbSize
structure size in bytes (padded to DWORD)

dwParams
indicates valid parameters

dwProtocolType
a RIL_GPRSPROTOCOL_* constant

dwPrecedenceClass
valid RIL_GPRSPRECEDENCECLASS_* constants

dwDelayClass
valid RIL_GPRSDELAYCLASS_* constants

dwReliabilityClass
valid RIL_GPRSRELIABILITYCLASS_* constants

dwPeakThruClass
valid RIL_GPRSPEAKTHRUCLASS_* constants

dwMeanThruClass
valid RIL_GPRSMEANTHRUCLASS_* constants

Comments
TBDTBD
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

RILGPRSPROTOCOLCAPS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwProtocolType;
    RILRANGE ContextIDRange;
    DWORD dwDataCompression;
    DWORD dwHeaderCompression;
    DWORD dwParameterLength;
    char szParameters[];
} RILGPRSPROTOCOLCAPS;
```

General Packet Radio Service capabilities

Members

cbSize
structure size in bytes (padded to DWORD)

dwParams
indicates valid parameters

dwProtocolType
a RIL_GPRSPROTOCOL_* constant

ContextIDRange
min/max context ids

dwDataCompression
valid data compression values

dwHeaderCompression
valid header compression values

dwParameterLength
length of parameters list in bytes

szParameters[]
valid string parameters of this prococol type, delimited by , with final param terminated by

Comments
TBDTBD
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

RILGPRSQOSPROFILE Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwContextID;
    DWORD dwPrecedenceClass;
    DWORD dwDelayClass;
    DWORD dwReliabilityClass;
    DWORD dwPeakThruClass;
    DWORD dwMeanThruClass;
} RILGPRSQOSPROFILE;
```

A quality of service profile

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwContextID
the context number

dwPrecedenceClass
a RIL_GPRSPRECEDENCECLASS_* constant

dwDelayClass
a RIL_GPRSDELAYCLASS_* constant

dwReliabilityClass
a RIL_GPRSRELIABILITYCLASS_* constant

dwPeakThruClass
a RIL_GPRSPEAKTHRUCLASS_* constant

dwMeanThruClass
a RIL_GPRSMEANTHRUCLASS_* constant

Comments

None

RILHIDECONNECTEDIDSETTINGS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwProvisioning;
} RILHIDECONNECTEDIDSETTINGS;
```

Hide Connected ID settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwProvisioning
network provisioning status

Comments None

RILHIDEIDSETTINGS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    DWORD dwProvisioning;
} RILHIDEIDSETTINGS;
```

Hide ID settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
activation status

dwProvisioning
network provisioning status

Comments None

RILHSCSDINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwTranspRxTimeslots;
    DWORD dwTranspChannelCodings;
    DWORD dwNonTranspRxTimeslots;
    DWORD dwNonTranspChannelCodings;
    DWORD dwAirInterfaceUserRate;
    DWORD dwRxTimeslotsLimit;
    BOOL fAutoSvcLevelUpgrading;
} RILHSCSDINFO;
```

High speed circuit switched data settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwTranspRxTimeslots
number of receive timeslots for transparent HSCSD calls

dwTranspChannelCodings
accepted channel codings for transparent HSCSD calls

dwNonTranspRxTimeslots
number of receive timeslots for non-transparent HSCSD calls

dwNonTranspChannelCodings
accepted channel codings for non-transparent HSCSD calls

dwAirInterfaceUserRate
air interface user rate for non-transparent HSCSD calls

dwRxTimeslotsLimit
maximum number of receive timeslots to be used during the next non-transparent HSCSD call

fAutoSvcLevelUpgrading
TRUE if automatic user-initiated service level upgrading for non-transparent HSCSD calls is enabled, FALSE otherwise

Comments

None

RILMESSAGE Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    RILADDRESS raSvcCtrAddress;
    DWORD dwType;
    DWORD dwFlags;
    union {                              ;
    struct {                           ;
    RILADDRESS raOrigAddress;
    DWORD dwProtocolID;
    RILMSGDCS rmdDataCoding;
    SYSTEMTIME stSCReceiveTime;
    DWORD cbHdrLength;
    DWORD cchMsgLength;
    BYTE rgbHdr[MAXLENGTH_HDR];
    BYTE rgbMsg[MAXLENGTH_MSG];
     msgInDeliver;
    struct {                           ;
    DWORD dwTgtMsgReference;
    RILADDRESS raTgtRecipAddress;
    SYSTEMTIME stTgtSCReceiveTime;
    SYSTEMTIME stTgtDischargeTime;
```

```
    DWORD dwTgtDlvStatus;
    DWORD dwProtocolID;
    RILMSGDCS rmdDataCoding;
    DWORD cbHdrLength;
    DWORD cchMsgLength;
    BYTE rgbHdr[MAXLENGTH_HDR];
    BYTE rgbMsg[MAXLENGTH_MSG];
     msgInStatus;
    struct {                          ;
    RILADDRESS raDestAddress;
    DWORD dwProtocolID;
    RILMSGDCS rmdDataCoding;
    DWORD dwVPFormat;
    SYSTEMTIME stVP;
    DWORD cbHdrLength;
    DWORD cchMsgLength;
    BYTE rgbHdr[MAXLENGTH_HDR];
    BYTE rgbMsg[MAXLENGTH_MSG];
     msgOutSubmit;
    struct {                          ;
    DWORD dwProtocolID;
    DWORD dwCommandType;
    DWORD dwTgtMsgReference;
    RILADDRESS raDestAddress;
    DWORD cbCmdLength;
    BYTE rgbCmd[MAXLENGTH_CMD];
     msgOutCommand;
    struct {                          ;
    DWORD dwGeoScope;
    DWORD dwMsgCode;
    DWORD dwUpdateNumber;
    DWORD dwID;
    RILMSGDCS rmdDataCoding;
    DWORD dwTotalPages;
    DWORD dwPageNumber;
    DWORD cchMsgLength;
    BYTE rgbMsg[MAXLENGTH_MSG];
     msgBcGeneral;
    DWORD cchMsgLength;
    BYTE rgbMsg[MAXLENGTH_MSG];
     msgOutRaw;
} RILMESSAGE;
```

Message data

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

raSvcCtrAddress
service center address

dwType
type of message

dwFlags
message flags

UNION MEMBER

RIL_MSGTYPE_IN_DELIVER

raOrigAddress
originating address

dwProtocolID
message protocol

rmdDataCoding
data coding scheme

stSCReceiveTime
receive time

cbHdrLength
length of header in bytes

cchMsgLength
length of body in bytes

rgbHdr[MAXLENGTH_HDR]
header buffer

rgbMsg[MAXLENGTH_MSG]
body buffer

msgInDeliver
End RIL_MSGTYPE_IN_DELIVER

RIL_MSGTYPE_IN_STATUS

dwTgtMsgReference
target message reference

raTgtRecipAddress
receipient address

stTgtSCReceiveTime
receipient receive time

stTgtDischargeTime
receipient dischage time

dwTgtDlvStatus
delivery status

dwProtocolID
message protocol

rmdDataCoding
data coding scheme

cbHdrLength
length of header in bytes

cchMsgLength
length of body in bytes

rgbHdr[MAXLENGTH_HDR]
header buffer

rgbMsg[MAXLENGTH_MSG]
body buffer

msgInStatus
End RIL_MSGTYPE_IN_STATUS

RIL_MSGTYPE_OUT_SUBMIT

raDestAddress
destination address

dwProtocolID
message protocol

rmdDataCoding
data coding scheme

dwVPFormat
TBD

stVP
TBD

cbHdrLength
length of header in bytes

cchMsgLength
length of body in bytes

rgbHdr[MAXLENGTH_HDR]
header buffer

rgbMsg[MAXLENGTH_MSG]
body buffer

msgOutSubmit
RIL_MSGTYPE_OUT_SUBMIT

RIL_MSGTYPE_OUT_COMMAND

dwProtocolID
message protocol

dwCommandType
command type

dwTgtMsgReference
target message reference

raDestAddress
destination address

cbCmdLength
length of command in bytes

rgbCmd[MAXLENGTH_CMD]
command buffer

msgOutCommand
RIL_MSGTYPE_OUT_COMMAND

RIL_MSGTYPE_BC_GENERAL

dwGeoScope
message protocol

dwMsgCode
message code

dwUpdateNumber
update number

dwID
identity

rmdDataCoding
data coding scheme

dwTotalPages
total number of pages

dwPageNumber
current page number

cchMsgLength
length of message in bytes

rgbMsg[MAXLENGTH_MSG]
message buffer

msgBcGeneral
RIL_MSGTYPE_BC_GENERAL

cchMsgLength
length of body in bytes

rgbMsg[MAXLENGTH_MSG]
message buffer

msgOutRaw
RIL_MSGTYPE_OUT_RAW

Comments None

RILMESSAGE_IN_SIM Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwLocation;
    DWORD dwIndex;
```

```
} RILMESSAGE_IN_SIM;
```

Message data in sim info

Members

cbSize
structure size in bytes

dwLocation
storage area (one of RIL_MSGLOC_xxxx)

dwIndex
storage index occupied by the message

Comments None

RILMESSAGEINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwIndex;
    DWORD dwStatus;
    RILMESSAGE rmMessage;
} RILMESSAGEINFO;
```

Message data with additional info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwIndex
storage index occupied by the message

dwStatus
message status

rmMessage
the message itself

Comments None

RILMSGCONFIG Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    RILADDRESS raSvcCtrAddress;
    char szBroadcastMsgIDs[MAXLENGTH_MSGIDS];
    DWORD dwBroadcastMsgLangs;
} RILMSGCONFIG;
```

Messaging configuration

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

raSvcCtrAddress
service center address

szBroadcastMsgIDs[MAXLENGTH_MSGIDS]
list of subscribed broadcast message IDs

dwBroadcastMsgLangs
broadcast message languages

Comments

None

RILMSGDCS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwType;
    DWORD dwFlags;
    DWORD dwMsgClass;
    DWORD dwAlphabet;
    DWORD dwIndication;
    DWORD dwLanguage;
} RILMSGDCS;
```

Message data coding scheme

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwType
DCS type

dwFlags
DCS flags

dwMsgClass
message class (Only for RIL_DCSTYPE_GENERAL and RIL_DCSTYPE_MSGCLASS)

dwAlphabet
DCS alphabet

dwIndication
indication (Only for RIL_DCSTYPE_MSGWAIT)

dwLanguage
indication (Only for RIL_DCSTYPE_LANGUAGE)

Comments None

RILMSGSERVICEINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwService;
    DWORD dwMsgClasses;
    DWORD dwReadLocation;
    DWORD dwReadUsed;
    DWORD dwReadTotal;
    DWORD dwWriteLocation;
    DWORD dwWriteUsed;
    DWORD dwWriteTotal;
    DWORD dwStoreLocation;
    DWORD dwStoreUsed;
    DWORD dwStoreTotal;
} RILMSGSERVICEINFO;
```

Messaging service settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwService
supported service types

dwMsgClasses
supported message classes

dwReadLocation
currect read location

dwReadUsed
number of fields used

dwReadTotal
total number of fields

dwWriteLocation
currect read location

dwWriteUsed
number of fields used

dwWriteTotal
total number of fields

dwStoreLocation
currect read location

dwStoreUsed
number of fields used

dwStoreTotal
total number of fields

Comments None

RILMSGSTORAGEINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwReadLocation;
    DWORD dwWriteLocation;
    DWORD dwStoreLocation;
} RILMSGSTORAGEINFO;
```

Message storage locations

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwReadLocation
current read location

dwWriteLocation
current write location

dwStoreLocation
current store location

Comments None

RILOPERATORINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwIndex;
    DWORD dwStatus;
    RILOPERATORNAMES ronNames;
} RILOPERATORINFO;
```

Indicates status of a particular operator

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwIndex
index, if applicable

dwStatus
registration status, if applicable

ronNames
representations of an operator

Comments None

RILOPERATORNAMES Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    char szLongName[MAXLENGTH_OPERATOR_LONG];
    char szShortName[MAXLENGTH_OPERATOR_SHORT];
    char szNumName[MAXLENGTH_OPERATOR_NUMERIC];
} RILOPERATORNAMES;
```

The different representations of an operator

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

szLongName[MAXLENGTH_OPERATOR_LONG]
long representation (max 16 characters)

szShortName[MAXLENGTH_OPERATOR_SHORT]
short representation (max 8 characters)

szNumName[MAXLENGTH_OPERATOR_NUMERIC]
numeric representation (3 digit country code & 2 digit network code)

Comments None

RILPHONEBOOKENTRY Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwIndex;
    RILADDRESS raAddress;
    WCHAR wszText[MAXLENGTH_PHONEBOOKTEXT];
} RILPHONEBOOKENTRY;
```

A single phonebook entry

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwIndex
index of the entry

raAddress
the stored address

wszText[MAXLENGTH_PHONEBOOKTEXT]
assciated text

Comments None

RILPHONEBOOKINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStoreLocation;
    DWORD dwUsed;
    DWORD dwTotal;
} RILPHONEBOOKINFO;
```

Phonebook settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStoreLocation
location of phonebook memory

dwUsed
number of locations used

dwTotal
total number of phonebook locations

Comments None

RILRANGE Structure

```
typedef struct {
    DWORD dwMinValue;
    DWORD dwMaxValue;
} RILRANGE;
```

Range of values

Members

dwMinValue
minimum value

dwMaxValue
maximum value

Comments None

RILREMOTEPARTYINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    RILADDRESS raAddress;
    RILSUBADDRESS rsaSubAddress;
    WCHAR wszDescription[MAXLENGTH_DESCRIPTION];
    DWORD dwValidity;
} RILREMOTEPARTYINFO;
```

Incoming call info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

raAddress
address of caller

rsaSubAddress
subaddress of caller

wszDescription[MAXLENGTH_DESCRIPTION]
text associated with caller

dwValidity
indicates validity of caller info

Comments None

RILRINGINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwCallType;
    DWORD dwAddressId;
    RILSERVICEINFO rsiServiceInfo;
} RILRINGINFO;
```

Ring information

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwCallType
type of the offered call (*RIL_CALLTYPE_* constant)

dwAddressId
indicates address ID on which the incoming call arrived (if available)

rsiServiceInfo
data connection service information (set only for *RIL_CALLTYPE_DATA*)

Comments None

RILRLPINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwIWS;
    DWORD dwMWS;
    DWORD dwAckTimer;
    DWORD dwRetransmissionAttempts;
    DWORD dwVersion;
    DWORD dwResequencingPeriod;
} RILRLPINFO;
```

Radio link protocol settings

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwIWS
IWF-to-MS window size

dwMWS
MS-to-IWF window size

dwAckTimer
acknowledgement timer in 10s of milliseconds (T1)

dwRetransmissionAttempts
number of retransmission attempts (N2)

dwVersion
RLP version number

dwResequencingPeriod
resequencing period (T4)

Comments None

RILSERIALPORTSTATS Structure

```
typedef struct {
```

```
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwReadBitsPerSecond;
    DWORD dwWrittenBitsPerSecond;
} RILSERIALPORTSTATS;
```

Statistics of the virtual serial port

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwReadBitsPerSecond
bit rate for reading data

dwWrittenBitsPerSecond
bit rate for writing data

Comments None

RILSERVICEINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    BOOL fSynchronous;
    BOOL fTransparent;
} RILSERVICEINFO;
```

Connection service information

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

fSynchronous
TRUE if connection service is synchronous, FALSE if asynchronous

fTransparent
TRUE if connection service is transparent, FALSE if non-transparent

Comments None

RILSIGNALQUALITY Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    int nSignalStrength;
    int nMinSignalStrength;
```

```
    int nMaxSignalStrength;
    DWORD dwBitErrorRate;
    int nLowSignalStrength;
    int nHighSignalStrength;
} RILSIGNALQUALITY;
```

Signal quality info

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

nSignalStrength
TBD

nMinSignalStrength
TBD

nMaxSignalStrength
TBD

dwBitErrorRate
bit error rate in 1/100 of a percent

nLowSignalStrength
TBD

nHighSignalStrength
TBD

Comments

None

RILSIMCMDPARAMETERS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwFileID;
    DWORD dwParameter1;
    DWORD dwParameter2;
    DWORD dwParameter3;
} RILSIMCMDPARAMETERS;
```

Parameters for a restricted SIM command

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwFileID
SIM file ID

dwParameter1
parameter specific to SIM command

dwParameter2
parameter specific to SIM command

dwParameter3
parameter specific to SIM command

Comments None

RILSIMRECORDSTATUS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwRecordType;
    DWORD dwItemCount;
    DWORD dwSize;
} RILSIMRECORDSTATUS;
```

Response to a restrcited SIM command

Members

cbSize
Size of the structure in bytes

dwParams
Indicates valid parameter values

dwRecordType
RIL_SIMRECORDTYPE_* Constant

dwItemCount
Number of items in the record

dwSize
Size in bytes of each item

Comments None

RILSIMRESPONSE Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatusWord1;
    DWORD dwStatusWord2;
    BYTE pbResponse[];
} RILSIMRESPONSE;
```

Response to a restrcited SIM command

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatusWord1
return parameter specific to SIM command

dwStatusWord2
return parameter specific to SIM command

pbResponse[]
additional bytes of response data

Comments
None
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"

RILSIMTOOLKITNOTIFYCAPS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
} RILSIMTOOLKITNOTIFYCAPS;
```

SIM TOOLKIT NOTIFY CAPABILITIES

Members
cbSize
structure size in bytes

dwParams
indicates valid parameters

Comments
This structure indicates who implements the various SIM ToolKit Notifications

Values
dwRefresh
TBD

dwMoreTime
TBD

dwPollInterval
TBD

dwPollingOff
TBD

dwSetUpCall
TBD

dwSendSS
TBD

dwSendSMS
TBD

dwPlayTone
TBD

dwDisplayText
TBD

dwGetInkey
TBD

dwGetInput
TBD

dwSelectItem
TBD

dwSetupMenu
TBD

dwLocalInfo
TBD

RILSUBADDRESS Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwType;
    WCHAR wszSubAddress[MAXLENGTH_SUBADDR];
} RILSUBADDRESS;
```

The subaddress of a called party

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwType
type of subaddress

wszSubAddress[MAXLENGTH_SUBADDR]
subaddress (min 2, max 23)

Comments

None

RILSUBSCRIBERINFO Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    RILADDRESS raAddress;
    WCHAR wszDescription[MAXLENGTH_DESCRIPTION];
    DWORD dwSpeed;
    DWORD dwService;
    DWORD dwITC;
    DWORD dwAddressId;
} RILSUBSCRIBERINFO;
```

A phone number assigned to the user

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

raAddress
the assigned address

wszDescription[MAXLENGTH_DESCRIPTION]
text relating to this subscriber

dwSpeed
data rate related to this number

dwService
the service related to this number

dwITC
information transfer capability

dwAddressId
the address ID of this number

Comments

None

RILSUPSERVICEDATA Structure

```
typedef struct {
    DWORD cbSize;
    DWORD dwParams;
    DWORD dwStatus;
    BYTE pbData[];
} RILSUPSERVICEDATA;
```

Supplementary service data

Members

cbSize
structure size in bytes

dwParams
indicates valid parameters

dwStatus
additional status for message

pbData[]
message itself

Comments

None
Disable "C4200: nonstandard extension used : zero-sized array in struct/union"